

**1030 College Algebra (3) [MS]**

Prerequisites: A satisfactory score on the university's mathematics placement examination, obtained in the six months prior to enrollment in this course. Topics in algebra and probability, polynomial functions, the binomial theorem, logarithms, exponentials, and solutions to systems of equations.

**1035 Trigonometry (2) [MS]**

Prerequisite: **Math 1030 or concurrent registration, or a satisfactory ACT Math score, or a satisfactory score on the university's mathematics proficiency examination.** A study of the trigonometric and inverse trigonometric functions with emphasis on trigonometric identities and equations.

**1070 Applied Mathematics of Interest (2)**

Prerequisites: Math 1030. An introduction to the role of interest in applied mathematics. Topics include simple and compound interest, mathematics of annuities, amortization bonds, sinking funds, and mortgages.

**1100 Basic Calculus (3) [MS]**

Prerequisite: Math 1030, or a satisfactory ACT Math score, or a satisfactory score on the university's mathematics proficiency examination. Introduction to plane analytic geometry and basic differential and integral calculus with application to various areas. No credit for Mathematics majors. Credit not granted for both Math 1800 and 1100.

**1102 Finite Mathematics (3)**

Prerequisite: Math 1030, or a satisfactory ACT Math score, or a satisfactory score on the university's proficiency examination. Introductory logic and set theory, partitions and counting problems, elementary probability theory, stochastic processes, Markov chains, vectors and matrices, linear programming, and game theory.

**1105 Basic Probability and Statistics (3) [MS]**

Prerequisites: Math 1030, or a satisfactory ACT Math score, or a satisfactory score on the university's mathematics proficiency examination. An introduction to probability and statistics. Topics include the concept of probability and its properties, descriptive statistics, discrete and continuous random variables, expected value, distribution functions, the central limit theorem, random sampling and sampling distributions. Credit not granted for more than one of Stat 1310, Stat 1320 and Math 1105.

**1150 Structure of Mathematical Systems I (3) [MS]**

Prerequisites: 45 hours of college credit and one of the following: Math 1030, a satisfactory ACT Math score, or a satisfactory score on the university's mathematics proficiency examination. A study of sets, relations, functions, whole numbers; the integers and their properties, and the rational and real number systems.

**1320 Applied Statistics I (3)**

Prerequisites: Math 1800 or 1100 or equivalent. See Statistics 1320 in Probability and Statistics section that follows.

**1800 Analytic Geometry and Calculus I (5) [MS]**

Prerequisites: Math 1030 and 1035, or a satisfactory ACT Math score along with a satisfactory score on the university's trigonometry examination, or a satisfactory score on both the university's mathematics proficiency examination and the university's trigonometry examination. This course provides an introduction to differential and integral calculus. Topics include limits, derivatives, related rates, Newton's method, the Mean-Value Theorem, Max-Min problems, the integral, the Fundamental Theorem of Integral Calculus, areas, volumes, and average values.

**1900 Analytic Geometry and Calculus II (5)**

Prerequisite: Math 1800. Topics include conic sections, rotations of axes, polar coordinates, exponential and logarithmic functions, inverse (trigonometric) functions, integration techniques, applications of the integral (including mass, moments, arc length, and hydrostatic pressure), parametric equations, infinite series, power and Taylor series.

**2000 Analytic Geometry and Calculus III (5)**

Prerequisite: Math 1900. Topics include vectors, cylindrical and spherical coordinates, vector-valued functions, arc length and curvature, functions of several variables, partial and directional derivatives, gradients, extrema, Lagrange multipliers, multiple integrals, change of variables, surface area, vector fields, Stokes' Theorem.

**2020 Introduction to Differential Equations (3)**

Prerequisite: Math 2000. Topics will be chosen from linear differential equations, equations with constant coefficients, Laplace transforms, power series solutions, systems of ordinary differential equations.

**2320 Applied Statistics II (3)**

Prerequisite: Stat 1320 Same as Stat 2320 See Stat 2320 in Probability and Statistics section that follows.

**2450 Elementary Linear Algebra (3)**

Prerequisites: Math 1100 or 1900. An introduction to linear algebra. Topics will include complex numbers, geometric vectors in two and three dimensions and their linear transformations, the algebra of matrices, determinants, solutions of systems of equations, eigenvalues and eigenvectors.

**2510 Structure of Mathematical Systems II (3) [MS]**

Prerequisite: Math 1150. An introduction to probability and statistics. An intuitive study of elementary geometry. Introduction to the deductive theory of geometry and to coordinate geometry.

**3000 Discrete Structures (3)**

Prerequisite: Math 1900 or 1100, and Cmp Sc 1250 or equivalent. Same as Cmp Sc 3000. Treats fundamental ideas in discrete structures and serves as a foundation for subsequent course in both Mathematics and Computer Science. Provides an introduction to techniques of mathematical reasoning with examples derived from computer science. Topics include logic, set algebra, equivalence relations and partitions, functions, mathematical induction, elementary number theory, cardinality, recurrence relations, basic combinatorial methods, trees and graphs. Credit not granted for more than one of Cmp Sc 2250 and Math 3000.

**3520 Structure of Mathematical Systems III (3) [MS]**

Prerequisite: Math 2510. Together with Math 1150 and 2510, this course teaches mathematics necessary for middle school mathematics certification. Topics from Math 1150 and 2510 are continued. Other topics include geometric constructions, similarity, coordinate geometry, normal distribution, combinatorics, and trigonometry. Credit will be granted only toward the B.S. in education degree in Early Childhood Education, Elementary Education, Middle School Education and Special Education.

**4030 Applied Mathematics I (3)**

Prerequisites: Math 2020 and 2450. Topics chosen from Fourier series, special functions, partial differential equations, and boundary value problems.

**4060 Applied Differential Equations (3)**

Prerequisite: Math 2020 and 2450. The study of ordinary differential equations and partial differential equations is continued with applications in such areas as physics engineering and biology.

**4100 Real Analysis I (3)**

Prerequisite: Math 2000 and 3000. Introduction to real analysis in one variable. Topics include the real number system, limits, continuity, differentiability, and sequences and series of functions.

**4110 Advanced Calculus (3)**

Prerequisite: Math 2000, 2450 and 3000. Multivariable analysis, inverse and implicit functions theorems, calculus on manifolds.

**4160 Complex Analysis I (3)**

Prerequisite: Math 2020 or both Cmp Sc/Math 3000 and Math 2000. Complex numbers and their geometrical representation, point sets, analytic functions of a complex variable, complex integration, Taylor and Laurent series, residue theorem, conformal mapping.

**4200 Mathematical Statistics I (3)**

Prerequisites: Math 1320 and Math 2000. Introduction to the theory of probability and statistics using concepts and methods of calculus.

**4210 Mathematical Statistics II (3)**

Prerequisites: Math 4200. Continuation of Math 4200. Sampling distribution, estimation theory, properties of estimators, hypothesis testing, Neyman-Pearson Theorem, likelihood ratio tests, introduction of analysis of variance and linear models. Basics of some nonparametric procedures.

**4230 Numerical Analysis I (3)**

Prerequisites: Math 2020, 2450, and ability to program in an upper-level language. Solutions of equations, interpolation and approximation, numerical differentiation and integration, and numerical solution of initial value problems in ordinary differential equations. Selected algorithms will be programmed for solution on computers.

**4240 Numerical Analysis II (3)**

Prerequisite: Math 4230 or consent of instructor. Topics chosen from: the numerical solution of systems of linear equations; the eigenvalue/eigenvector problem; numerical solution of Partial Differential Equations (PDE); numerical solution of stiff Ordinary Differential Equations (ODE); boundary value problems; sparse matrix methods; approximation theory; optimization theory; digital filters; integral equations.

**4270 The Calculus of Variations (3)**

Prerequisites: Math 2020 and 4100. Methods for optimizing functionals and their application. The Euler-

Lagrange condition. Hamilton's principle, two dimensional variational problems, and isoperimetric problems. Approximate methods for the solution of variational problems.

**4350 Theory of Numbers (3)**

Prerequisite: Cmp Sc/Math 3000 and Math 2000 or consent of instructor. Properties of integers, multiplicative functions, congruences, primitive roots, and quadratic residues.

**4400 Introduction to Abstract Algebra I (3)**

Prerequisite: Cmp Sc/Math 3000 and Math 2000 or consent of the department. Introduction to groups, rings, and fields, with emphasis on groups and rings.

**4410 Introduction to Abstract Algebra II (3)**

Continuation of Math 4400 with emphasis on fields.

**4450 Linear Algebra (3)**

Prerequisites: Cmp Sc/Math 3000, Math 2000 and Math 2450. Topics selected from vector spaces, bases, linear transformations, matrices, canonical forms, eigenvalues, hermitian and unitary matrices, inner product spaces, and quadratic forms.

**4500 Special Readings (1-10)**

Prerequisites: Cmp Sc/Math 3000, Math 2000 and consent of instructor.

**4550 Combinatorics (3)**

Prerequisite: Cmp Sc/Math 3000 and Math 2000. Advanced counting methods are introduced, including the use of generating functions for the solution of recurrences and difference equations. Additional topics may include: graphs and trees, combinatorial designs, combinatorial games, error-correcting codes, and finite-state machines.

**4580 Mathematical Logic (3)**

Prerequisite: Cmp Sc/Math 3000 and Math 2000 or Philosophy 4460. A study of the logic of mathematics by the axiomatic method, with a development of the propositional calculus and restricted predicate calculus emphasizing its application to the foundations of mathematics.

**4620 Projective Geometry (3)**

Prerequisites: Cmp Sc/Math 3000, Math 2000 and Math 2450. Analytic approach to the study of projective spaces. Theorems of Desargues, Pascal, and Brianchon. Projective properties of conics.

**4640 Introduction to Differential Geometry (3)**

Prerequisite: Cmp Sc/Math 3000 and Math 2000. Geometry of curves and surfaces in Euclidean three-space. Calculus on a surface. Intrinsic geometry of surfaces.

**4660 Foundations of Geometry (3)**

Prerequisite: Cmp Sc/Math 3000 and Math 2000 or consent of department. A development of portions of Euclidean geometry from a selected set of axioms, including a discussion of consistency, independence, categoricity, and completeness of the axioms.

**4670 Introduction to Non-Euclidean Geometry (3)**

Prerequisite: Cmp Sc/Math 3000 and Math 2000 or consent of the department. A summary of the history of the non- Euclidean geometries and a study of hyperbolic plane geometry.

**4800 Introduction to Topology (3)**

Prerequisite: Cmp Sc/Math 3000 and Math 2000 or consent of the department. A study of topological spaces, including the concepts of limit, continuity, connectedness, compactness, etc. Special emphasis placed on, and examples taken from, the space of real numbers..

**4890 Topics in Mathematics (3)**

Prerequisite: Consent of instructor. A seminar on special topics in mathematics to be determined by the interests of the instructor. May be repeated for credit provided different topics are studied.

**5010 Theory of Ordinary Differential Equations (3)**

Prerequisite: Math 4100. A theoretical treatment of ordinary differential equations including the existence and uniqueness of solutions of differential equations and systems of differential equations. The course treats such topics as systems of linear differential equations, eigenvalue problems, autonomous systems, and boundary value problems.

**5020 Classical Applied Mathematics (3)**

Prerequisites: Math 4100, 4160, and 4450 or consent of instructor. The course gives the derivation of equations of mathematical physics such as Navier-Stokes' equations, Euler's equations, equations of elastic materials, and equations of electrodynamics, using scaling and conservation principles. The course also

includes elements of the calculus of variations, the Euler-Lagrange equations and Hamiltonian theory.

**5040 Calculus of Variations (3)**

Prerequisites: Math 2020, 4100 and 4450. Classical functionals, minimization of functionals, Euler-Lagrange equations, appropriate function spaces, weak solutions, existence of solutions, approximation theory, practical applications and finite element approach to solutions will be covered.

**5050 Computational Curves and Surfaces (3)**

Prerequisite: Math 4100, 4230 and 4450, or consent of instructor. Construction of curves and surfaces using subdivision algorithms. Iterative refinement of discrete data in an easily programmable manner. Discussion of issues of convergence, shape control, relation to spline functions with uniform knots, multi resolution analysis, and wavelets.

**5060 Computational Harmonic Analysis (3)**

Prerequisites: Math 4030, Math 4100, and Math 4450. The course covers the basic of Fourier analysis and wavelet analysis. Topics include Fourier transforms and series, discrete Fourier transform, discrete cosine transform and their fast computational schemes, fast wavelet transform, and the lifting scheme. Additional topics include industrial standards for image compression and several aspects of signal processing.

**5100 Real Analysis II (3)**

Prerequisites: Math 4100. Introduction to measure and integration. Topics include the Riemann-Stieltjes integral, Lebesgue measure, measurable functions, the Lebesgue integral, Radon-Nikodym and Fubini theorems and the basics of  $L_p$ -spaces.

**5110 Differentiable Manifolds (3)**

Prerequisites: Math 4100, 4450, and 4800. An introduction to smooth manifolds and maps. Topics will include the Implicit Function Theorem, Sard's Theorem, transversality, intersection and degree theory, differential forms and integration on manifolds.

**5140 Set Theory and Metric Spaces (3)**

Prerequisites: Math 4100 or consent of instructor. Naïve set theory, cardinal arithmetic, ordinal numbers, the axiom of choice and equivalents, metric spaces, convergence, continuity, compactness, contraction principles and applications. Construction of completions and examples like the real numbers and  $p$ -adic numbers. Other topics could include the Stone-Weierstrass theorem and metrizability theorems.

**5160 Complex Analysis II (3)**

Prerequisites: Math 4160, and either Math 4100 or 4800. A second course in complex analysis, emphasizing the theory of analytic functions, and including various topics like the Riemann mapping theorem, normal families, analytic continuation, representations of analytic functions, and elliptic functions.

**5270 Numerical Linear Algebra (3)**

Prerequisite: Math 4230 and Math 4450 or consent of the instructor. The course includes solution of general and special linear systems. Techniques include methods such as splitting or Krylov subspaces. Additional topics are the eigenvalue problem and the method of least squares.

**5300 Partial Differential Equations (3)**

Prerequisites: Math 4100, 4160, 4450, and 4800. Classification of partial differential equations; Cauchy, Dirichlet, and Neumann problems; the fundamental solution; existence theorems of potential theory; eigenvalue problems; and Tricomi's problem.

**5320 Applied Statistics (3)**

Prerequisites: Math 4210 or consent of instructor. The course studies classical and recently developed statistical procedures selected from areas including analysis of variance, multivariate analysis, nonparametric or semiparametric methods and generalized linear models. Emphasis is on application of procedures, including the rationale underlying choice of procedures.

**5350 Operations Research-Deterministic Models (3)**

Prerequisites: Math 4450 or equivalent. A study of deterministic methods and models in operations research. This course provides an introduction to operations research and focuses on model building, solution and interpretation of results. Topics include formulation, solution, duality and sensitivity analysis in linear programming, integer programming, network flow models, nonlinear optimization, and dynamic programming.

**5360 Operations Research-Stochastic Models (3)**

Prerequisites: Math 4200 or equivalent. A study of stochastic methods and models in operations research. Provides an introduction to probabilistic models for decision making under uncertainty. Topics include stochastic processes, queuing theory and models, probabilistic inventory theory and models, Markovian decision problems, simulation and reliability.

**5370 Quality Management (3)**

Prerequisite: Math 4200 or consent of instructor. An applied course on total quality management. Quality improvement approaches are presented and the managerial implications and responsibilities in implementing these approaches are discussed. Topical coverage includes the construction and interpretation of control charts, graphical methods, quality function deployment, robust experiments for product design and improvement, mistake-proofing (poke-yoke), the Deming approach, Baldrige award criteria, quality cost audits, worker empowerment and reward systems. Cases involving both business processes and physical processes are used to illustrate successful quality improvement efforts.

**5420 Algebra (3)**

Prerequisites: Math 4400 and 4450. Basic fundamentals of the theory of groups, rings and fields.

**5500 Directed Readings (1-6)**

Prerequisite: Consent of instructor. Independent readings at an advanced level.

**5550 Topics in Advanced Mathematics for the Teacher (3)**

Prerequisite: Consent of instructor. This course will look at various topics in algebra, analysis, and geometry that will deepen a teacher's understanding of the mathematics of the precollegiate curriculum. It can be taken more than once for credit.

**5600 Topics in Computation (3)**

Prerequisite: Consent of instructor. The course will cover various advanced topics in computation and can be taken more than once for credit. Examples of such topics are: computer graphics, computer architecture, theories of language, analysis of operating systems, numerical geometry and computer aided design, etc.

**5700 Topics in Applied Mathematics (3)**

Prerequisite: Consent of instructor. This course will cover various advanced topics in applied mathematics, and can be taken more than once for credit. Examples of such topics are: Fast transforms, digital filters, etc.

**5710 Topics in Analysis (3)**

Prerequisite: Math 5100 or consent of instructor. Topics selected from the areas of Fourier analysis, harmonic analysis, functional analysis, special functions, generalized functions, and partial differential equations. May be taken more than once for credit with consent of department.

**5720 Topics in Numerical Analysis (3)**

Prerequisite: Consent of instructor. The course will cover various advanced topics in numerical analysis and can be taken more than once for credit. Examples of such topics are: A.D.I. Techniques for solving p.d.e., finite element techniques, the algebraic eigenvalue problem, the software, etc.

**5800 Topics in Topology (3)**

Prerequisite: Consent of instructor. The course will cover topics selected from algebraic or differential topology and may be taken more than once for credit with the consent of the department.

**5810 Topics in Number Theory (3)**

Prerequisite: Consent of instructor. Topics selected from elementary, algebraic, analytic, and other branches of number theory. Examples of topics include the distribution of primes, the Riemann Zeta function, averages of arithmetic functions, the theory of partitions, ideal theory, and representations of integers by quadratic forms.

**5820 Topics in Algebra (3)**

Prerequisite: Consent of instructor. Topics selected from the theory of groups, rings, fields, algebras, and other algebraic systems. May be taken more than once for credit with consent of department.

**6070 Time-Frequency Analysis (3)**

Prerequisites: Math 5060. The course covers theoretical and practical aspects of several time-frequency methods. Included are linear transformations such as filtering, Zak, Gabor and wavelet transforms; bilinear transformations include the Winger-Ville distribution and other distributions of Cohen's class. Statistical methods of feature extraction and applications to signal compression are outlined as well.

**6080 Advances in Wavelet Analysis (3)**

Prerequisite: Math 5060. The course describes recent developments in several research areas connected with wavelet analysis. Included are frames, wavelet vectors, wavelet packets, wavelets on compact intervals and manifolds, adaptive (nonlinear) methods, and methods of computational physics. Applications include the sparsification of matrices, denoising and compression of signals.

**6200 Probability Theory (3)**

Prerequisite: Math 5100 may be taken concurrently. Combinatorial analysis, random walks, stochastic independence, random variables, laws of large numbers, generating functions, and branching processes.

**6440 Lie Groups (3)**

Prerequisites: Math 4400 and 5110. The course provides an introduction to Lie Groups, Lie Algebras, and their representations.

**6600 Topics in Probability Theory (3)**

Prerequisite: Consent of instructor. The course will cover advanced topics in probability theory and may be taken more than once for credit with the consent of the department

**6700 Functional Analysis (3)**

Prerequisites: Math 4450 and 5100. Algebraic and topological tools applied to problems in analysis. The topics chosen will usually include topological vector spaces, metric spaces, Banach spaces, Hilbert spaces, and Banach algebras.

**6900 Master's Thesis (1-6)**

Prerequisite: Consent of instructor. Thesis work under the supervision of a faculty member. The course is designed for those students intending to present a thesis as part of their M.A. program. Students who do not write a thesis cannot apply Math 6900 to a degree.

**7990 Ph.D. Dissertation Research (1-9)**

Prerequisites: Completion of comprehensive exams. May be taken for no more than nine hours.

**Computer Science**

**1010 Introduction to Computers and the Internet (3)**

Prerequisites: Same as for Math 1020 and Math 1030. Covers basic concepts and components of a PC, including microprocessor, disk, display, multimedia, printers, scanners, backup; survey of popular applications including e-mail, personal information managers, word processors, spreadsheets; brief discussion of computer languages; networking, terminology, methods for accessing information on remote computers; dialup access to computers including use of modems; overview of the Internet, popular browsers, World Wide Web, search engines, FTP, utilities, Hyper Text Markup Language, tools for Web page construction, security, privacy. Credit not granted for both Cmp Sc 1010 and Bus Ad 1800.

**1015 Web Structures I (1)**

Prerequisites: Cmp Sc 1010 and Math 1030 or equivalent. Introduction to Web page design and management using software such as GoLive. Topics include graphical user interfaces, page templates and dynamic Web page publishing.

**1016 Web Structures II (1)**

Prerequisites: Cmp Sc 1015(or equivalent) Introduction to Java and Java Script. This is a project oriented course using Java and software such as GoLive for Web page design and Internet programming.

**1050 User Interface Design and Event-Driven Programming with Visual Basic (3)**

Prerequisite: Cmp Sc 1250 or knowledge of some programming language and consent of the instructor. This course explores programming in Visual Basic for event-driven applications. Design and implementation of graphical user interfaces (GUI) are explored as primary examples. Additional topics may include DDE, OLE, and interactions with databases.

**1220 Computers and Programming (3)**

Prerequisite: Math 1800 or 1100, or a grade of at least B in Math 1030. An overview of a computer system is presented. Structured design techniques are considered and applied to the development of computer programs. Aspects of the FORTRAN language will be studied including basic data types, subroutines and functions, arrays, and files. Credit not granted for both Bus Ad 1804 and Cmp Sc 1220.

**1250 Introduction to Computing (3)**

Prerequisite: Math 1800 or 1100, or a grade of at least B in Math 1030. An overview of a computer system is presented. Structured design techniques are considered and applied to the development of computer programs. Aspects of a high level language such as Pascal or C will be studied, including elementary and advanced data types and subprograms. Various features of the UNIX operating system will also be discussed.

**2010 An Introduction to Java and Internet Programming (3)**

Prerequisite: Math 1030. Introduces the Java programming language and its use in Internet programming. This course will involve programming assignments in Java and their interface with browsers using applets. Students will also be exposed to the Java's windows toolkit -- the AWT. A brief introduction to object-oriented programming concepts will be provided. Other topics will include threads, virtual machines, byte code, and the Java security model.

**2210 The C Programming Language (3)**

Prerequisite: Cmp Sc 2250 or the equivalent. The C language is introduced together with the associated tools which make up the UNIX C programming environment. The course is project-oriented and a portion of the

practical work will involve UNIX systems programming. This course is intended for students who have completed the equivalent of Cmp Sc 1250 and Cmp Sc 2250 but without the C language. It may not be taken for credit if the student has taken Cmp Sc 2250 with C.

**2250 Programming and Data Structures (3)**

Prerequisite: Cmp Sc 1250. A continuation of Cmp Sc 1250. Advanced programming techniques including recursion, divide-and-conquer, and backtracking will be considered. A discussion of dynamic data structures such as lists, binary trees, stacks, queues, and symbol tables will be presented. An introduction to modular programming, program specification and verification, and analysis of algorithms will be given.

**2260 Object Oriented Programming with C++ (3)**

Prerequisite: Cmp Sc 2250. Introduces object-oriented concepts, terminology, and notation. The C++ language is explored, including topics such as dynamic memory, exception handling, function and class templates, operator overloading, inheritance, polymorphism, and generic programming with the standard template library. Additional topics may include GUI libraries.

**2700 Computer Systems: Architecture and Organization (3)**

Prerequisite: Cmp Sc 2250. Introduces details of computer systems from architectural and organizational points of view. Topics discussed may include data representation, digital logic and basic circuits such as ALU, multiplexers, decoders, flip-flops, registers, RAM and ROM memory, memory hierarchies, I/O devices, pipelining, parallel and RISC architectures, etc.

**2710 Computer Systems: Programming (3)**

Prerequisite: Cmp Sc 2700. Continues introduction of computer systems, with assembly programming and its application. Topics covered may include addressing modes, stack manipulations and applications for reentrant and recursive modules, memory interfacing, I/O device interfacing, and serial and parallel communication.

**2750 Advanced Programming with Unix (3)**

Prerequisite: Cmp Sc 2250. Exploration of the Unix operating system, including its tools and utilities for program development, such as makefile, piping and redirection, shell scripts, regular expressions, and symbolic debuggers. In addition, this course explores advanced features of the C programming language, including various file processing, command-line and variable arguments, exception handling and generic interfacing.

**3000 Discrete Structures (3)**

Prerequisites: Math 1900 or 1100, and Cmp Sc 1250 or equivalent. Same as Math 3000. Treats fundamental ideas in discrete structures and serves as a foundation for subsequent course in both Mathematics and Computer Science. Provides an introduction to techniques of mathematical reasoning with examples derived from computer science. Topics include logic, set algebra, equivalence relations and partitions, functions, mathematical induction, elementary number theory, cardinality, recurrence relations, basic combinatorial methods, trees and graphs. Credit not granted for more than one of Cmp Sc 3000, Math 250, and Math 3000

**3010 Web Programming Techniques (3)**

Prerequisites: Cmp Sc 2750. A project-oriented course which provides a survey of current technologies including markup languages (XHTML, CSS, XML), scripting languages (Java Script), client/server computing (CGI/PERL/PHP), applets, Web protocols, session tracking, and other topics as time permits.

**3130 Design and Analysis of Algorithms (3)**

Prerequisites: Cmp Sc 2250, Cmp Sc/Math 3000, Math 2450 and Math 1320. Addresses the design and mathematical analysis of fundamental algorithms in computer science. Algorithms studied may involve search, sorting, data compression, string manipulation, graph traversal and decomposition, and algebraic and numeric manipulation.

**4020 Java and Internet Programming (3)**

Prerequisites: Cmp Sc 3010 or consent of instructor. A project-oriented course which examines core Java features and selected Internet applications, such as networking, servlets, applets, AWT/SWING graphics, database connectivity, and XML.

**4040 Electronic Commerce Protocols (3)**

Prerequisites: Cmp Sc 2750 and Math 2450. Provides a technical introduction to electronic commerce over the Internet, examining topics such as electronic data interchange, digital currency, and electronic catalogs. The course discusses technical issues such as telecommunications infrastructure, data warehousing, software agents, and storage retrieval of multimedia information. Other topics may include cryptographic techniques as applicable to web-site development, management of data in a secure manner, authentication and confidentiality, different levels of security (transaction, network, and protocol), and digital signatures.

**4050 User Interface Development (3)**

Prerequisites: Cmp Sc 2750. Focuses on user interface design standards as a programming problem. It covers

topics such as functional vs. aesthetic concerns, elegance and simplicity, interference between competing elements, visual variables, perceptual organization for visual structure, grid-based design of module and program, semiotics with images and representation.

**4140 Theory of Computation (3)**

Prerequisites: Cmp Sc 3130. Covers finite state machines and pushdown automata, and their relationship to regular and context-free languages. Also covers minimization of automata, Turing machines, and undecidability. Other topics may include Church's Thesis, uncomputability, computational complexity, propositional calculus and predicate calculus.

**4250 Programming Languages (3)**

Prerequisites: Cmp Sc 2260. A study of the principles of modern programming languages. The students perform a comparative study of syntax, semantics, and pragmatics of high-level programming languages. Also provides a discussion of list-processing, object-oriented, functional, procedural, or other programming paradigms.

**4280 Program Translation Techniques (3)**

Prerequisites: Cmp Sc 2700, Cmp Sc 2260, Cmp Sc/Math 3000, Math 2450. Looks at the theory of programming languages as well as the theory of program translation as a means for dealing with the conceptual gap introduced by the levels of abstraction. Program translation mechanisms are studied as a means to explore the tradeoff between language expressiveness, translation, and execution effectiveness. Particular attention is paid to compilers, with emphasis on constraints induced by syntax and semantics.

**4300 Introduction to Artificial Intelligence (3)**

Prerequisites: Cmp Sc 2260, Cmp Sc 2750 and Cmp Sc 3130. An overview of AI applications is presented. An AI programming language, such as Prolog or Lisp, is introduced. Fundamental AI problem solving techniques are applied to heuristic search and game playing. An introduction to knowledge representation and expert systems is given. Topics such as theorem proving, neural networks, and natural language processing may also be studied.

**4410 Computer Graphics (3)**

Prerequisites: Cmp Sc 2260, Cmp Sc 2750 and Cmp Sc 3130. The basic architecture of various types of graphics systems is presented. Also presents a detailed description of the basic algorithms for 2-dimensional and 3-dimensional graphics systems. Algorithms for shading, hidden line removal, and rendering in the 3-D systems will be examined. The course involves significant project work.

**4440 Digital Image Processing (3)**

Prerequisites: Cmp Sc 2260, Cmp Sc 2750 and Cmp Sc 3130. Focuses on low-level image processing data structures and algorithms for binary image processing, region and texture analysis, image filtering, edge detection, and contour following. Other topics include coding for storage, retrieval, transmission, and image restoration.

**4500 Software Engineering (3)**

Prerequisites: Cmp Sc 2260 and Cmp Sc 2750. Introduces software engineering as a discipline, discusses stages of software lifecycle, compares development models such as waterfall, prototyping and incremental/iterative, and compares structured and object-oriented methods. It also discusses software documentation, both internal and external verification/validation, quality assurance, testing methods, maintenance, project management and team structure, metrics, and available tools.

**4520 Object-Oriented Analysis and Design (3)**

Prerequisites: Cmp Sc 4500. Concentrates on modeling using a visual language such as UML, in the context of a generic object-oriented development process. Discusses the object world, analysis/design goals as the driving development force, different system views, use cases, static and dynamic models, diagrams, modeling with patterns, and principles of responsibility assignments. The course may be supplemented with a CASE tool.

**4540 Software System Architectures (3)**

Concerned with the design, modeling, and evaluation of complex software systems at the architectural level of abstraction. Covers basic principles of architectural system design, and may cover topics such as multi-tiered and packaged architectures, model-view and model-service separation, design supports for distributed and client-server applications, design patterns, package interfaces, notation, persistence, and GUI frameworks.

**4560 Software Development Processes (3)**

Prerequisites: Cmp Sc 4500 or Cmp Sc 4520. This course is an in-depth study of software development processes, in the context of an actual project. Discussion includes object-oriented processes such as Rational Unified Process, as well as process management issues such as scheduling, risk-assessment, various metrics, and the selection of appropriate development methodology and tools.

**4610 Database Management Systems (3)**

Prerequisites: Cmp Sc 2750 and Cmp Sc 3130. Presents the foundations, concepts and principles of database design. Various models of data representation are considered, including the hierarchical and relational models. Also considers some of the implementation issues for database systems.

**4620 Information Retrieval (3)**

Prerequisites: Cmp Sc 2750 and Cmp Sc 3130. Presents deterministic models of information retrieval systems, including conventional Boolean, fuzzy set theory, p-norm, and vector space models. Other topics include probabilistic models, text analysis and automatic indexing, automatic query formulation, system-user adaptation and learning mechanisms, evaluation of retrieval, review of new theories and future directions, and intelligent information retrieval.

**4730 Computer Networks and Communications (3)**

Prerequisite: Cmp Sc 2750 and Math 1320. Communication systems will be considered in the context of the ISO standard for systems interconnection. Various types of networks will be studied including wide area networks, local area networks, and fiber optic networks.

**4740 Client-Server Architectures (3)**

Prerequisites: Cmp Sc 2750 and Math 2450. Studies communications systems in the context of the ISO standard for systems interconnection. There is hands-on exposure to development of client-server applications.

**4760 Operating Systems (3)**

Prerequisites: Cmp Sc 2750, Cmp Sc 2700, Math 1320 and Math 2450. Studies the structure of a generic operating system, considering in detail the algorithms for interprocess communication, process scheduling, resource management, memory management, file systems, and device management. Topics in security may also be examined. Examples from pertinent operating systems are presented throughout, and use of the algorithms in modern operating systems is examined. Substantial practical work, using the UNIX operating system is required.

**4770 Operating Systems for Telecommunications (3)**

Prerequisites: Cmp Sc 4520 or MSIS 6806. The structure of a general operating system will be studied. The various components, including the interface with the underlying hardware, will be considered in detail. UNIX and Windows/NT will be considered as case studies throughout the course. The course will also emphasize hands on experience as a power user of at least one modern operating system.

**4780 Systems Administration and Computer Security (3)**

Prerequisites: Cmp Sc 2750. Identifies and studies major issues of relevance to systems and networks management. Covers a wide range of topics from a basic primer on networking topics from the systems perspective to advanced technical issues of user authentication, encryption, and mail privacy. Discusses the latest advances in network management tools and computer security protocols.

**4880 Individual Studies (1-3)**

Prerequisites: Cmp Sc 2750 and consent of instructor. Allows a student to pursue individual studies under the supervision of a faculty member. May include development of a software project. May be repeated for credit.

**4890 Topics in Computer Science (3)**

Prerequisite: Consent of instructor. A seminar on special topics in computer science to be determined by recent developments in the field and the interests of the instructor. May be repeated for credit with departmental consent.

**5010 Advanced Java Programming (3)**

Prerequisites: Cmp Sc 4020 or consent of instructor. Coverage will emphasize advanced Java topics and may include, J2EE, Beans/Enterprise Beans, RMI/RPC, JDBC, Servlets/JSP, development tools such as Ant, frameworks, such as Eclipse, and Java IDEs.

**5130 Advanced Data Structures and Algorithms (3)**

Prerequisites: An elementary course in analysis of algorithms or consent of the instructor. This course covers analysis of time and space complexity of iterative and recursive algorithms along with performance bounds, design of data structures for efficient performance, sorting algorithms, probabilistic algorithms, divide and conquer strategies, various algorithms on graphs, and NP completeness.

**5320 Introduction to Evolutionary Computation (3)**

Prerequisite: Cmp Sc 4300 or consent of instructor. This course introduces the concepts of nature-inspired problem solving population dynamics, Darwinian selection, and inheritance. It discusses problems applicable to evolutionary algorithms, overviews the existing models and instances, and analyzes specific instances such as genetic algorithms and genetic programming.

**5340 Introduction to Machine Learning (3)**

Prerequisite: Cmp Sc 4300 or consent of instructor. This course introduces both symbolic and sub-symbolic approaches to machine intelligence. Specific topics covered may include data mining, supervised learning such as decision trees, and approximate methods such as fuzzy reasoning.

**5360 Expert Systems (3)**

Prerequisites: Cmp Sc 4300 or consent of instructor. This course concentrates on issues related to building expert systems mimicking human-level expertise, including knowledge engineering processes leading to the design, construction, and evaluation of systems, relevant languages, tools, and shells, as well as representation, quality, and inference methods.

**5380 Introduction to Neural Networks (3)**

Prerequisites: Cmp Sc 4300 or consent of instructor. This course introduces the concepts of connectionism, along with algorithms for simulating neural networks, discussion of alternative networks architectures and training algorithms.

**5400 Computer Vision (3)**

Prerequisites: Graduate standing and consent of instructor. This course introduces computational models of visual perception and their implementation on computer systems. Topics include early visual processing, edge detection, segmentation, intrinsic images, image modeling, representation of visual knowledge, and image understanding.

**5420 Visual Data Processing (3)**

Prerequisites: Graduate standing and consent of instructor. This course introduces low-level concepts and techniques used in image processing, including methods for image capture, transformation, enhancement, restoration, and encoding.

**5440 Pattern Recognition (3)**

Prerequisites: Graduate standing and consent of instructor. This course provides an introduction to statistical decision theory, adaptive classifiers, and supervised and unsupervised learning. Different types of pattern recognition systems are introduced, including transducers, feature extractor, and decision units. Students are exposed to the application of the techniques to optical character recognition, speech processing, and remote sensing.

**5500 Software Engineering (3)**

Prerequisites: Graduate standing and consent of the instructor. This course introduces software engineering as a discipline, discusses stages of the software life cycle, compares development models such as waterfall, prototyping and incremental/iterative, covers requirements analysis, effort and cost estimation, compares structured and object-oriented analysis and design methods. It also discusses verification/validation, quality assurance, software reliability, testing methods, maintenance, documentation, project management and team structure, metrics, and available tools. Credit not granted for both Cmp Sc 4500 and Cmp Sc 5500.

**5520 Object Oriented Analysis and Design (3)**

Prerequisites: Cmp Sc 4500, Cmp Sc 5500, or consent of the instructor. This course concentrates on modeling using a visual language such as UML, in the context of a generic object-oriented development process. It introduces the object world, analysis/design goals as the driving development force, different system views, use cases, static and dynamic models, diagrams, modeling and patterns, and principles of responsibility assignments. The course may be supplemented with a CASE tool. Topics are the same as Cmp Sc 4520 but material is covered at a greater depth and additional projects are required. Credit not granted for both Cmp Sc 4520 and Cmp Sc 5520.

**5540 Software Systems Architectures (3)**

Prerequisites: One of the following: Cmp Sc 4500, Cmp Sc 5500, Cmp Sc 4520, Cmp Sc 5520, or consent of the instructor. This course is concerned with the design, modeling, and evaluation of complex software systems at the architectural level of abstraction. It covers basic principles of architectural system design, and may cover topics such as multi-tiered and packaged architectures, model-view and model-service separation, design support for distributed and client-server applications, design patterns, package interfaces, notation, persistence and GUI frameworks. Topics are the same as Cmp Sc 4540 but material is covered at a greater depth and additional projects are required. Credit not granted for both Cmp Sc 4540 and Cmp Sc 5540).

**5560 Software Development Processes (3)**

Prerequisites: One of the following: Cmp Sc 4500, Cmp Sc 5500, Cmp Sc 4520, Cmp Sc 5520, or consent of the instructor. This course is an in-depth study of software development processes, in the context of an actual project. Discussion will include object-oriented processes such as the Rational Unified Process, as well as process management issues such as scheduling, risk-assessment, various metrics, and the selection of appropriate development methodology and tools. Topics are the same as Cmp Sc 4560 but material is covered at a greater depth and additional projects are required. Credit not granted for both Cmp Sc 4560 and Cmp Sc 5560.

**5610 Advanced Databases (3)**

Prerequisites: Graduate standing and consent of instructor. This course is an in-depth study of database techniques, including normalization theory, object-oriented databases, statistical databases, distributed databases, and failure recovery. The course will also involve substantial readings from the current literature.

**5620 Intelligent Information Retrieval (3)**

Prerequisites: Cmp Sc 4300 or consent of instructor. This course studies the use of AI techniques for the development of adaptive information retrieval systems. Techniques for analysis of information by statistical, syntactical, and logical methods are also studied. Topics related to multimedia information are also discussed.

**5640 Multimedia Information Systems (3)**

Prerequisites: Cmp Sc 4410 or Cmp Sc 5400. This course studies the technical and human issues related to the design, construction, and use of computer programs that combine text, audio, video, graphics, animation, and graphical user interfaces. It also surveys applications and tools.

**5700 Computer Systems (3)**

Prerequisites: Background in computer organization or architecture or consent of instructor. This course focuses on parallel computing architectures, including RISC, pipelining, vector processing, SIMD, MIMD, and array processing. It introduces different memory and I/O subsystems, hardware description languages, and it demonstrates performance enhancement using different architectures studied.

**5730 Client/Server Computing (3)**

Prerequisite: Cmp Sc 4770 or MSIS 6836. The course will study communications systems in the context of ISO standards for systems interconnection. There will be hands on exposure to development of client-server applications.

**5740 Parallel and Distributed Computing (3)**

Prerequisites: Background in computer organization or architecture, or consent of instructor. This course introduces the fundamentals of parallel computation and algorithm design. It discusses general techniques for designing efficient parallel algorithms for fixed-connection parallel network architectures such as arrays, trees, and hypercubes.

**5760 Advanced Operating Systems and Network Management (3)**

Prerequisites: Cmp Sc 4760 or consent of instructor. This course provides a survey of contemporary operating systems principles, including overall design strategies for operating systems. The course also discusses communication and synchronization techniques for concurrent processes, and statistical analysis of job scheduling, process scheduling, I/O scheduling, and memory management.

**5780 Systems Administration (3)**

Prerequisite: Cmp Sc 4760 or 4770 and MSIS 6838. The course will identify and study major issues of relevance to systems and networks management. It covers a wide range of topics from a basic primer on networking topics from the systems perspective to advanced technical issues of user authentication, encryption, and mail privacy. The course will discuss the latest advances in network management tools and computer security protocols.

**5870 Computer Science Seminar (1-3)**

Prerequisites: Graduate standing and consent of instructor. This is a seminar on various topics. Substantial student reading and participation is expected. It may be taken more than once for credit with the consent of the department.

**5880 Computer Science Independent Project (1-3)**

Prerequisites: Graduate standing and consent of instructor. This course offers the student an opportunity to work on an adviser-supervised project, individually or in a group. A student may repeat the course for up to 6 credit hours total, but at most 6 hours can be accumulated for Cmp Sc 5880 and Cmp Sc 6900.

**5890 Topics in Computer Science (1-3)**

Prerequisites: Graduate standing and consent of instructor. This course offers various topics not offered on a regular basis. It may be taken more than once for credit with the consent of the department.

**6320 Advances in Evolutionary Computation (3)**

Prerequisites: Cmp Sc 5320 or consent of instructor. This course focuses on some advanced topics in Genetic and Evolutionary Computation, both theoretical and practical. Topics may include competent genetic algorithms, learning classifier systems, and Markov models. A substantial part of the course will be based on recent literature. Projects may involve literature research, developing specific applications or implementing a specific model.

**6340 Genetic Programming (3)**

Prerequisites: Cmp Sc 5320 or consent of instructor. This course provides an in-depth exploration of Genetic

Programming, including advanced concepts such as scalability, evolution of modularity and regularity, and constrained evolution with CGP, STGP, or CFG-based GP. It may be reading, research, or application oriented.

**6410 Topics in Computer Graphics (3)**

Prerequisites: Cmp Sc 4410 or consent of instructor. This course covers various aspects of advanced graphics techniques, such as geometric modeling, rendering, shading, texturing, and computer animation. The course provides an in-depth study of recent advanced topics in computer graphics.

**6420 Topics in Image Processing and Multimedia (3)**

Prerequisites: Cmp Sc 5400, Cmp Sc 5420 or consent of instructor. This course covers new developments in digital image processing, computer vision, and multimedia. Topics to be covered may include image databases, object tracking, and large-scale data visualization.

**6900 Thesis (1-6)**

Prerequisites: Completion of at least 12 graduate credits and approval of research topic by thesis adviser. This course is designed for those students intending to present a thesis as part of their M.S. program. At most 6 hours can be accumulated for Cmp Sc 5880 and Cmp Sc 6900.

**Probability and Statistics****1310 Elementary Statistical Methods (3)**

Prerequisite: Math 1030, or a satisfactory ACT Math score, or a satisfactory score on the university's mathematics proficiency exam. An introduction to the basic ideas and tools of statistics. Introductory data analysis, statistical modeling, probability and statistical inference. Includes topics in estimation, prediction, and hypothesis testing. A major focus of the course is the analysis of data using a computer software package such as SAS. A student may not receive credit for more than one of Statistics 1310, Statistics 1320, and Math 1105.

**1320 Applied Statistics I (3)**

Prerequisite: Math 1800 or 1100 or equivalent. This is the first course of a one-year sequence in introductory probability and statistics. It provides a comprehensive introduction to those models and methods which are most likely to be encountered by students in their careers in applied mathematics and the sciences. Topics include descriptive statistics, basics of probability theory, random variables and their distributions, sampling distributions, confidence intervals, and hypothesis testing for population means and population proportions. A student may not receive credit for more than one of Stat 1320, Stat 1310 and Math 1105.

**2320 Applied Statistics II (3)**

Prerequisite: Math 1320, or equivalent. This course is a continuation of Stat 1320. It provides a survey of a variety of important statistical methods which are useful in analyzing data. Topics include single and multi-factor analysis of variance, simple and multiple linear regression, analysis of categorical data, and non-parametric statistical methods.

**4200 Mathematical Statistics I (3)**

Prerequisites: Math 1320 and Math 2000. Introduction to theory of probability and statistics using concepts and methods of calculus.

**4210 Mathematical Statistics II (3)**

Prerequisite: Math 4200. Continuation of Statistics 4200. Sampling distributions, estimation theory, properties of estimators, hypothesis testing, Neyman-Pearson Theorem, likelihood ratio tests, introduction of analysis of variance and linear models. Basics of some nonparametric procedures.

**4260 Introduction to Stochastic Processes (3)**

Prerequisite: Math 4200. Basic theory and applications of stochastic processes. Markov chains, martingales, recurrent and transient states, stationary distributions, ergodic theorem, renewal processes, discrete martingales and stationary processes.

**4300 Multivariate Analysis (3)**

Prerequisites: Math 2450 and Math 4200, or consent of instructor. Multivariate normal distribution and related sampling distributions. Procedures of statistical inference for the multivariate normal distributions, such as hypothesis testing, parameter estimations, multivariate regression, classification and discriminant analysis and principal components analysis.

**4310 Analysis of Variance and Design of Experiments (3)**

Prerequisites: Math 2450 and Math 4200 or consent of instructor. An introduction to the analysis of variance with applications in completely randomized designs, randomized block designs, factorial experiments and split-plot type designs.

**4320 Regression Models in Statistics (3)**

Prerequisites: Math 2320 or consent of instructor. A rigorous course focused on the applications of regression.

The course is rigorous in that the basic regression models in one and several variables are carefully developed using matrix notation. Topics such as the extra sums of squares principle, the general linear hypothesis, and partial and sequential F-tests are carefully presented. The course will focus on using these tools to analyze many different data sets.

**4330 Nonparametric Methods in Statistics (3)**

Prerequisite: Math 4200 or consent of instructor. An introduction to nonparametric statistical procedures. Order statistics, rank order statistics and scores, tests of goodness of fit, linear rank tests for the location and scale problems and applications.

**4390 Topics in Probability and Statistics (3)**

Prerequisite: Consent of instructor. A seminar on special topics in probability and statistics to be determined by the interests of the instructor. May be determined by the interests of the instructor. May be repeated for credit provided different topics are studied.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Minors in Interdisciplinary Studies

### | Course Descriptions |

The College of Arts and Sciences offers a number of interdisciplinary programs leading to either Bachelor of Liberal Studies degree or a minor or a certificate in a designated area of study. There are also a number of courses which are designated as interdisciplinary and which may or may not be part of a particular interdisciplinary minor or certificate program.

These interdisciplinary courses and programs bring together the resources of two or more subject areas to focus on topics that benefit from being studied from the point of view of more than one discipline. In some cases, faculty from several departments teach as a team, giving students the opportunity to experience faculty dialogue in a cross disciplinary fashion.

#### **Bachelor of Liberal Studies (BLS)**

The Bachelor of Liberal Studies is a degree program that enables students to combine structured academic emphases in ways more relevant to their interests than the standard academic major.

Students who participate in this program must declare their areas of study (two minors or minor and certificate) at the time they declare that BLS is their intended degree. The plan of study should be approved at the beginning of the program.

To obtain a Bachelor of Liberal Studies (BLS), a student must complete:

- UM-St. Louis General Education Requirements  
General Education (consult General Education section of course listings)
  - Communication Skills 6 credit hours
  - Managing Information 3 credit hours
  - Valuing Skills 3 credit hours
  - Social and Behavioral Sciences 9 credit hours
  - Humanities 9 credit hours
  - Math/Science 12 credit hours
  - (for a total of 42 credit hours )

In addition, students must complete the **State Requirement (3)** and **Cultural Diversity Requirement (3)** if not met in General Education course selection

- The university requirement of proficiency in English Composition  
**English 1100** - Freshman Composition  
**English 3100** - Advanced Expository Writing
- The university requirement of proficiency in Mathematics (to be completed in first 24 hours at the University)
- A Liberal Studies Concentration (33-41 hours) to consist of designated (identified) BLS Minors in participating departments or other units (minimum of 15 hours each)  
**or**  
A designated minor and a designated multi-disciplinary certificate (minimum of 15 hours in each). **No course may be used more than once.**  
**and**  
A capstone course (minimum of 3 hours) selected from one of the minors that make up the identified BLS score.

Note: (Not all Departments have capstone courses so students must be careful to pair minors and certificates so that they have a capstone course.)

#### Also Required

- Minimum of 45 credit hours in Junior and Senior level course work (3000 and 4000 level)
- Electives 28-42
- A minimum of 120 credit hours
- Overall GPA of 2.0 with minimum GPA of 2.0 with a minimum grade of C in all courses used in BLS

combination areas

- Residency requirement, in addition to campus residency, unless otherwise specified, 9 graded hours in each minor and certificate at 2000 level or above and one capstone course

The College of Arts and Sciences (CAS), Fine Arts and Communication (CoFAC), Business Administration (BA), and the Pierre Laclède Honors College (PLHC) have joined together to make available Liberal Studies combinations involving the following units:

Department of Anthropology, (CAS)  
 Department of Art and Art History, (CoFAC)  
 Minor in Art History or Studio Art  
 Department of Biology, (CAS)  
 College of Business Administration, (BA)  
 Minor in Business Administration only  
 Department of Chemistry and Biochemistry, (CAS)  
 Department of Communication, (CoFAC)  
 Department of Criminology and Criminal Justice, (CAS)  
 Department of Economics, (CAS)  
 Department of English, (CAS)  
 Department of Foreign Languages and Literature, (CAS)  
 Department of History, (CAS)  
 Pierre Laclède Honors College (PLHC) \*  
 Department of Mathematics and Computer Science, (CAS)  
 Department of Music, (COFAC)  
 Department of Philosophy, (CAS)  
 Department of Physics and Astronomy, (CAS)  
 Department of Political Science, (CAS)  
 Department of Psychology, (CAS)  
 Department of Sociology, (CAS)  
 Department of Theatre, Dance and Media Studies, (COFAC)  
 Institute of Women's and Gender Studies, (CAS)

#### **Bachelor of Liberal Arts: Capstone and Other Restrictions**

A. The School of Social work, as well as the Colleges of Education, Nursing, and the Joint Engineering Program are not participants in the BLS program.

B. The College of Business is participating but only the General Business Minor may be used. **No** capstone course **will be available for the business minors**. Students selecting the Business Minor as one of the components for the BLS must select the other minor from or a department that does offer a capstone.

C. The Studio Arts **minors in the** Department of Art and Art History will not have a capstone. Students selecting a Studio Art Minor will have to pair it with a **minor** that does have a capstone.

D. Undergraduate certificates and Interdisciplinary Minors may be paired with a minor to form a BLS core; however, since certificates and interdisciplinary minors will not have capstone courses, they must be paired with a minor that does have a capstone.\*

E. Only the Theatre minor can be used from the Department of Theatre, Dance and Media Studies. That Department will offer no capstone course.

F. The capstone will be in addition to the courses presented for the minor. A minimum grade of C must be earned in the capstone course.

G. Students who are planning to earn a Bachelor of Liberal Studies degree should declare the BLS as their major within the first 90 hours of the program. Declaration past this time may prevent timely graduation as all capstone courses are not available every semester.

\*However, students admitted to the Pierre Laclède Honors College who wish to present the Honors Certificate as a minor for the B.L.S. must complete the Honors capstone (Honors 4000, one or two credit hours) and also direct three to six hours of their Honors independent study requirement to work demonstrably relevant to their B.L.S. program. Students should consult the B.L.S. faculty advisor in the Honors College about this requirement.

The following departments have identified a Capstone:

**Anthropology:** Anthro 4301-Ideas and Explanations in Anthropology

**Art & Art History:** Art 3395-Sophomore/Junior Seminar: The Methods of Art History or one additional 4000 level topics course in Art History

**Biology:** Biol 4889-Senior Seminar

**Chemistry/Biochemistry:** Chem 3022-Introduction to Chemical Literature (1) and Chem 3905-Chemical Research (1) and Chem 4897-Seminar (1)

**Communication:** Commun 3330-Research Methods I

**Criminology & Criminal Justice:** Criminology 4390-Seminar in Criminology & Criminal Justice

**Economics:** Econ 4100-Introduction to Econometrics [If this course is used to complete the minor, then, the students must take an additional 4000 level Economic course.]

**English:** Additional 4000 level English Literature course [Student must identify themselves as using the additional 4000 level course as a Capstone so additional requirements can be assigned]

**Foreign Languages and Literatures:**

French 3211-Contemporary French Culture

German 3210-German Culture and Civilization

Span 3210-Hispanic Culture and Civilization: Spain [or] Span 3211-Hispanic Culture and Civilization: Spanish America

**History:** History 4004-Senior Seminar (5) credits

**Honors College:** Honors 4100 (1 or 2 credit hours) and three to six credit hours of Honors 4900 or 4910 are required.

**Mathematics/Computer Science:**

**Computer Science:** 4000 Level Course in Computer Science, which was not counted as one counted as one of the electives towards the minor.

**Mathematics:** 4000 Level Course in Mathematics, which was not counted as one counted as one of the electives towards the minor.

**Statistics:** There will be no Capstone course in Statistics. The student will have to choose a capstone course from the other area of concentration.

**Music:** Music 4000-Directed Studies (3) credits [Under the Music History and Literature, Music Theory and Composition, Music Pedagogy, or Music Practicum curricular destination]

**Philosophy:** Phil 4491-Senior Seminar

**Physics:** Physcs 4381-Directed Readings in Physics

**Political Science:** Pol Sc 3950-Senior Seminar in Political Science

**Psychology:** An additional 4000 level Psychology course beyond Psychology courses present for the Minor

**Sociology:** An additional 4000 level course in Sociology

## Interdisciplinary Minors and Certificates

### Minor in American Studies

American Studies is an internationally recognized academic field which involves an interdisciplinary approach to the study of the culture(s) of the United States, its colonial antecedents, and its indigenous peoples.

Students interested in this minor should contact the coordinator of American Studies for advice and information.

Candidates must have a cumulative grade point average of 2.0 or better in the 18 credit hours required for the minor. Three hours of the minor may be taken on a satisfactory/unsatisfactory basis. Candidates wishing to take American Studies courses from the Honors College (see below) must be members of the Honors College or must have a 3.0 cumulative grade point average.

### Requirements for the minor.

Completion of the American Studies minor requires at least 18 semester credit hours, including at least two courses (6 hours) from Section A and at least two courses (6 hours) from Section B. The other 6 hours may be chosen from Section A, B, and/or C. Please read the special requirements below.

#### A. Core courses in American Studies (all courses are 3 credits except where otherwise indicated).

At least two of the following core courses are required to qualify for the minor. Of this minimal requirement, one course must be chosen from either American Studies or English and the other from either History or Political Science. Students may take up to two additional courses from this group, and these may be chosen from any department or discipline.

#### Anthropology

**2120**, Native Peoples of North America

#### Art and Art History

**1104**, Indigenous Arts of North America

**2270**, American Art to 1876

**2279**, American Architecture

#### English

**1170**, American Literary Masterpieces

**1700**, African-American Literature

**1710**, Native American Literature

**2710**, American Literature I

**2720**, American Literature II

#### **History**

**1001**, American Civilization (to the mid-nineteenth century)

**1002**, American Civilization (from the mid-nineteenth century)

**1003**, African-American History

**1004**, The History of Women in the United States

#### **Honors**

**1210**, American Traditions: Humanities

**1220**, American Traditions: the Fine and Performing Arts

**1230**, American Traditions: Social Sciences

**1310**, Non-Western Traditions: Humanities

**1320**, Non-Western Traditions: the Fine and Performing Arts

**1330**, Non-Western Traditions: Social Sciences

Admission to these Honors Seminars requires consent of the dean of the Honors College: note that depending on instructor and content, Honors 1210 can fulfill the requirements from this group in literature/American Studies and Honors 1230 can fulfill the History/Political Science requirement. Honors 1310-1330 can qualify as additional Group A choices when their focus is on Native American traditions.

#### **Music**

**1002**, Introduction to African American Music

**1060**, Introduction to Jazz

#### **Philosophy**

**3307**, American Philosophy

#### **Political Science**

**1100**, Introduction to American Politics

**1990**, The City

**2300**, State Politics

**2350**, Introduction to Urban Politics

**2650**, American Political Thought

**2900**, Studies in Political Science (when appropriate).

#### **Sociology**

**1990**, The City

#### **B. Optional courses in American Studies** (all courses are 3 credits except where otherwise indicated).

To complete the American Studies minor, students must choose at least two courses from this group, from any department or discipline, and may choose up to four courses in this group. Courses chosen from this group must be chosen from at least two departments.

#### **Anthropology**

**3250**, American Folklore

**3291**, Current Issues in Anthropology (when appropriate).

#### **Art and Art History**

**3360**, Photography and Society (same as Intdsc 3360)

**4475**, Topics in American Art

**4481**, Topics in Contemporary Art (when appropriate)

#### **Communication**

**1050**, Introduction to Mass Media

**2243**, Communications in American Politics

**3352**, Mass Media Criticism

#### **Economics**

**2800**, History of American Economic Development (same as Hist 2800)

#### **Education**

**Ed Fnd 3251**, Black Americans in Education

**Ed Fnd 4330**, History of American Education

**Ed Fnd 4332**, Progressivism and Modern Education

**English**

- 3800**, Topics in Women and Literature (when appropriate)
- 4610**, Selected Major American Writers I
- 4620**, Selected Major American Writers II
- 4640**, American Fiction to World War I
- 4650**, Modern American Fiction
- 4930**, Studies in Women and Literature (when appropriate)
- 4950**, Special Topics in Literature (when appropriate)

**History**

- 2219**, U.S. Labor History
- 2800**, History of American Economic Development (Same as Econ 2800)
- 3000**, Selected Topics in History (when appropriate)
- 3012**, The Indian in American History
- 3021**, U. S. Urban History
- 3031**, History of Women in the United States
- 3042**, U.S. Social Movements in the 20 th Century
- 3043**, History of Crime and Justice
- 3051**, African-American History: From Slavery to Civil Rights
- 3052**, African-American History: From Civil Rights to Black Power
- 3053**, African-American Women's History
- 4004**, Senior Seminar (5 credits: when appropriate)
- 4013**, United States History for the Secondary Classroom

**Honors College**

(When topics are appropriate, any of the seminars below can qualify as an "option" course for the American Studies minor. Admission to these courses requires the consent of the dean of the Honors College.)

- 2010**, Inquiries in the Humanities
- 2020**, Inquiries in the Fine and Performing Arts
- 2030**, Inquiries in the Social Sciences
- 2070**, Inquiries in Education
- 3010**, Advanced Seminar in the Humanities
- 3020**, Advanced Seminar in the Fine and Performing Arts
- 3030**, Advanced Seminar in the Social Sciences
- 3070**, Advanced Seminar in Education
- 3510**, Research Seminar: Humanities
- 3520**, Research Seminar: Fine and Performing Arts
- 3530**, Research Seminar: Social and Behavioral Sciences
- 3570**, Research Seminar: Education

**Interdisciplinary**

- 3360**, Photography and Society (same as Art 3360)

**Philosophy**

- 4410**, Significant Figures in Philosophy (when appropriate)

**Political Science**

- 2280**, Judicial Politics and Policy
- 3300**, The American Presidency
- 3331**, Congressional Politics
- 2320**, African Americans and the Political System
- 3340**, Politics and the Media
- 3450**, Political Parties and Elections
- 2380**, Women in U. S. Politics
- 3200**, Constitutional Law
- 3210**, Civil Liberties
- 3390**, Studies in American Politics (when appropriate)

**Sociology**

- 1040**, Social Problems
- 2100**, Women in Contemporary Society
- 3268**, The Sociology of Conflict
- 4316**, Power, Ideology and Social Movements
- 4360**, Sociology of Minority Groups
- 4380**, Selected Topics in Social Policy (when appropriate)

**C. American Studies elective courses** (courses are 3 credit hours unless otherwise indicated).

Up to two courses from this group may be used for the American Studies minor. When two courses are chosen from this group, they must be chosen from different departments.

**Anthropology**

**2126**, Archaeology of Historic St. Louis

**2131**, Archaeology of Missouri

**2132**, Archaeology of North America

**2138**, African-American Archaeology

**Art and Art History**

**2281**, Art Since 1960

**Communication**

**3332**, Intercultural Communications

**3343**, The Rhetoric of Protest

**Criminology and Criminal Justice**

**2240**, Policing

**4340**, Race, Crime and Justice

**English**

**4060**, Adolescent Literature

**4770**, Modern Poetry

**4760**, Modern Drama

**4740**, Poetry since World War II

**History**

**3001**, United States History: Colonial America to 1763

**3002**, United States History: Revolution and the New Nation, 1763 - 1815

**3003**, United States History: Nationalism and Sectionalism, 1815 to 1860

**3004**, United States History: 1860-1900

**3005**, United States History: 1900-1940

**3006**, United States History: 1940 to the Present

**3031**, History of Women in the United States

**3041**, Topics in American Constitutional History

**3044**, American Military History to 1900

**3045**, American Foreign and Military Affairs, 1900-Present

**Media Studies**

**2218**, Public Policy in Telecommunication

**3355**, Media law and Regulation

**Political Science**

**2260**, Law and the Individual

**2290**, Women and the Law

**2420**, Introduction to Public Policy

**2820**, United States Foreign Policy

**3330**, Introduction to Political Behavior

**3370**, Mock Constitutional Convention

**3410**, The Politics of Business Regulation

**3460**, The Politics of Poverty and Welfare

**Social Work**

**2200**, Social Welfare as a Social Institution

**3400**, Social Issues and Social Policy Development

**Sociology**

**1040**, Social Problems

**2180**, Alcohol, Drugs and Society

**3202**, Urban Sociology

**4354**, Sociology of Business and Work Settings

In addition, courses with variable topics such as Topics in..., Studies in..., and seminars may be taken when the topics are appropriate. When in any doubt, see the coordinator of American Studies; such courses must be approved for inclusion in your American Studies minor **before the semester registration deadline**.

**Minor in Black Studies**

The minor in black studies is open to all undergraduate students at UM-St. Louis, whatever their major field. This minor is an interdisciplinary course of studies intended to provide a focus for new and existing courses in the area of black and African diaspora studies. A faculty member with expertise in black or diaspora studies is designated as coordinator. Students interested in pursuing the minor should consult the coordinator for advisement. For appropriate referral, please contact the advising office at the College of Arts and Sciences, 303 Lucas Hall.

Candidates must have a cumulative grade point average of 2.0 or better in the minor. Courses taken on a satisfactory/ unsatisfactory basis may not be applied to the minor. Courses applied to the minor may not be counted for a major.

Any courses relevant to black or African diaspora studies, offered by a humanities or social science department, may be taken when approved by the coordinator for the minor. Special topics courses, directed studies or readings may also be included for credit if relevant to the minor.

### Requirements

1. Students must take **one** of the following:

**Hist 1063**, The African Diaspora to 1800

**Hist 1064**, The African Diaspora Since 1800

2. A minimum of **two** courses from the following:

**Anthro 1005**, Human Origins

**Anthro 2124**, Cultures of Africa

**Art Hs 1105**, Introduction to The Arts of Africa

**English 1700**, African-American Literature

**Hist 1003**, African American History

**Hist 1061**, African Civilization to 1800

**Hist 1062**, African Civilization Since 1800

**Music 1002**, Introduction to African-American Music

3. Students should select a minimum of **three** courses from the following list. **One course must be a social science and one must be a humanities course.**

**Anthro 3234**, Cultural Continuity and Change in Subsaharan Africa

**Anthro 3235**, Women in Subsaharan Africa: A Contemporary Perspective

**Hist 3050**, Topics In African-American History

**Hist 3053**, African American Women's History

**Hist 3301**, West Africa to 1800

**Hist 3302**, West Africa Since 1800

**Hist 3303**, African Diaspora to 1800

**Hist 3304**, African Diaspora since 1800

**Pol Sc 2320**, African Americans and the Political System

**Pol Sc 2580**, African Politics

**Psych 4392**, Selected Topics in Psychology: African American Psychology (Note: Students should only take Psych 4392 when the topic is African American Psychology).

**Sociol 3245**, Sociology of South Africa

**Sociol 4360**, Sociology of Minority Groups

**Commun 3332**, Intercultural Communication

### Minor in Classical Studies

The minor in classical studies is an interdisciplinary course of studies intended to encourage undergraduates in various disciplines to come to a fuller awareness of the cultures of ancient Greece and Rome and of the classical tradition that underlies much of modern Western civilization. In addition to appealing to any student's curiosity about the early stages of society in the West, the minor provides an especially valuable supplement to those who are majoring in many liberal arts areas including history, literature, philosophy, foreign languages, and art.

Students pursuing the minor will acquire a foundation in either Greek or Latin. They may choose to use either sequence to fulfill the foreign language requirement in the College of Arts and Sciences.

### Requirements

Candidates for the minor must complete 19 credit hours of course work including:

**Latin 1001**

**Latin 1002 or Gk Anc 1001**

**Gk Anc 1002**

**and three** courses from the following list and any other course approved by the coordinator:

**Gk Anc 1001**, Intermediate Ancient Greek Language and Culture

**Art 2211**, Art and Archeology of the Ancient World  
**Art 2212**, Greek Art and Archeology  
**Art 2213**, Roman Art and Archeology  
**Art 4411**, Topics in Ancient Art and Archeology  
**English 1200**, Myth  
**English 2200**, Classical Literature in Translation  
**Hist 3081**, Rome: The Republic and Empire  
**Latin 2101**, Intermediate Latin Language and Culture  
**Phil 3301**, Ancient Philosophy  
**Phil 4401**, Plato  
**Phil 4402**, Aristotle

#### **Minor in Legal Studies**

The minor in legal studies is open to all undergraduate students at UM-St. Louis, whatever their major field. It offers a secondary field of concentration in one of the most important areas of social life. Students may use the minor as a complement to their major, as an additional qualification for career opportunities, or as general education.

This interdisciplinary minor coordinates liberal arts courses related to law. A faculty member in Legal Studies will advise students and will work with their major advisers in planning appropriate courses.

#### **Candidates must take:**

**Intdisc 1200**, Foundations of Law: An Introduction to Legal Studies (crosslisted as Pol Sc 1200 and Crimin 1200), **and five** courses from the following list. At least three courses must be taken at the 3000 level and above. No more than two courses from a single discipline may be included in the minor.

**Crimin 1100**, Introduction to Criminology and Criminal Justice  
**Crimin 1075**, Crime and Punishment  
**Crimin 1130**, Criminal Justice Policy  
**Crimin 2226**, Law and the Individual  
**Crimin 2227**, Urban Law: Poverty and the Justice System  
**Crimin 3345**, Rights of the Offender  
**Commun 3355**, Media Law and Regulation  
**Econ 3650**, Law and Economics  
**Hist 3041**, Topics in American Constitutional History  
**Hist 3071**, Medieval England  
**Phil 4487**, Philosophy of Law  
**Phil 5533**, Seminar in Philosophy of Law  
**Pol Sc 2260**, Law and the Individual (cross listed as Crimin 2226)  
**Pol Sc 2280**, Judicial Politics and Policy  
**Pol Sc 2290**, Women and the Law  
**Pol Sc 3200**, Constitutional Law  
**Pol Sc 3210**, Civil Liberties  
**Pol Sc 3260**, Judicial Decision Making  
**Pol Sc 3290**, Studies in Public Law  
**Pol Sc 4850**, International Law  
**Sociol 2175**, Women, Crime, and Society  
**Sociol 3278**, Sociology of Law

#### **Minor in Public Affairs Journalism**

The minor in public affairs journalism provides students with an overview of media operations, including basic writing and reporting skills, as well as a specialty area of advanced study. Ordinarily the specialty or cognate area focuses on a particular field, such as consumer affairs, economics, or political science -- areas in which a journalist would specialize. Cognate areas are proposed by students seeking the minor and approved by a faculty committee.

A minimum grade point average of 2.0 is required in the minor. No more than 3 hours credit may be taken on a satisfactory/unsatisfactory basis. A total of 18 hours is required for the minor. At least 12 of the 18 required hours must be taken at UM-St. Louis.

#### **Requirements**

##### **A. 9 hours in communication/English professional training:**

**English 3140 or Media 3214**, News Writing  
**English 3180**, Reporting or **Media 2212**, Broadcast Writing and Reporting  
**English 4890**, Independent Writing Project, or **Media 3394, 3396 or 3397**, Internship

**B. 9 hours in public affairs at the 3000 level or above**

1. Students earning a writing certificate or majoring in communication with a mass communication emphasis must take 15 hours (at least 9 of these at the 3000 level or above) in economics, political science, or sociology.

2. Students majoring in economics, political science, or sociology must take 9 hours (in addition to the required English/communication courses) at the 3000 level or above in addition to English/communication courses chosen from those listed above and/or in the two cognate areas outside their major (i.e., economics, political science, or sociology).

A list of courses applicable to the minor is available from the coordinator.

**Minor in Urban Studies**

A minor in urban studies includes 18 hours of course work. Candidates must have a cumulative grade point average of 2.0 or better in the minor. Courses taken on a satisfactory/unsatisfactory basis may not be applied to the minor. Special topics courses relevant to urban studies may be included in the minor when approved in advance by the coordinator of the urban studies minor.

**Requirements**

Students must take:

**Intdisc 1990**, The City and five courses selected from the following list, at least **three courses at the 3000 level or above**. No more than two courses from a single discipline may be included in the minor.

**Courses Applicable to the Minor**

**Anthro 3242**, The Culture of Cities

**Anthro 3250**, American Folklore

**Art Hs 2279**, American Architecture

**Art Hs 3365**, The Artist and the City

**Crimin 2230**, Crime Prevention

**Crimin 4300**, Communities and Crime

**Econ 3510**, Public Finance: State and Local

**Econ 3700**, Urban and Regional Economics

**Geog 2100**, Urban Geography

**Geog 2110**, Location Theory

**Hist 3000**, Selected Topics in History (when urban or St. Louis history)

**Pol Sc 2350**, Introduction to Urban Politics

**Pol Sc 3450**, Urban Administration

**Pol Sc 4470**, Urban Planning and Politics

**Psych 4235**, Community Psychology

**Psych 3256**, Environmental Psychology

**Sociol 1040**, Social Problems

**Sociol 3202**, Urban Sociology

**Sociol 4344**, Problems of Urban Community

**Course Descriptions**

In addition to regular departmental offerings, the College of Arts and Sciences also offers several interdisciplinary courses, listed below. These courses bring together the resources of two or more disciplines to focus on topics that benefit from being studied from the point of view of more than one discipline. In many cases faculty from several departments teach an interdisciplinary course together, giving students the opportunity to experience faculty dialogue on issues in a cross-disciplinary fashion. Most interdisciplinary courses have no prerequisites. Freshman and sophomore students are especially encouraged to take these courses.

Students who have earned 24 or more semester hours of credit at any accredited post-secondary institutions(s) before the start of the fall 2002 semester must meet the general education requirements stipulated in the UM-St Louis 2001-2002 Bulletin. The following courses fulfill the Social Sciences breadth of study requirements as described in that Bulletin: 1001, 1200, 1220, 1450, 1990, 2102, 2150++, 3690\*. The following courses fulfill the Humanities breadth of study requirement: 1000, 4465.

\*These courses may fulfill the Humanities or Social Sciences breadth of study requirements.

++ Depending on topic.

**160 Monday Noon Cultural Seminar (2)**

An interdisciplinary examination of topics in the Humanities. Students will attend the Monday Noon Cultural Series program of the Center for the Humanities each week and meet as a group to explore the nature and background of each presentation, e.g., fiction reading, musical event, presentation of scholarly research in the

arts or culture, or social and historical analysis.

**1000 Special Topics (3)**

Topics may vary from semester to semester, however, they will all focus in the cultural heritage of Great Britain with material taken from art, theater, literature, and selected topics in philosophy.

**1001 Special Topics (3)**

Topics may vary from semester to semester, however, material will be selected which will focus in the social, economic, historical or political institution of Great Britain.

**1075 Crime and Punishment (3)**

(Same as Crimin 1075 and Sociol 1075. An introduction to sociological and psychological explanations of crime and punishment. An examination of private and governmental responses to the threats of crime and delinquent behavior.

**1200 Foundations of Law: An Introduction to Legal Studies (3)**

(Same as Crimin 1200 and Pol Sc 1200). As a broad liberal-arts approach to the study of law, this course is designed to familiarize students with legal ideas, legal reasoning, and legal processes. It also provides comparative and historical perspectives on law that will help explain legal diversity and legal change. Finally, it offers opportunities to explore some of the persistent issues in law and legal theory: for example, issues about the sources of law, the responsibilities of the legal profession, or the relative merits of the adversary system.

**1220 Special Topics in Gerontology (1-3)**

(Same as Geron 1220). Selected topics dealing with various aspects of gerontology. The specific contents of this course will vary from semester to semester. The course may be repeated for credit with permission of the Gerontology director.

**1450 Introduction to Labor Studies (3)**

(Same as Pol Sc 1450). This course covers many topics important to the role of unions in the American political system and American society from a labor perspective. Topics include the role of workers in current and future times, unions' institutional structure, collective bargaining strategies and obstacles for union organizing, recent union campaigns, labor's political role, and the relationship between labor and media.

**1990 The City (3)**

(Same as Pol Sc 1990, and Sociol 1999). Consideration of economic factors, urban institutions, historical developments in urbanization, problems of the inner city, suburbia and the metropolitan area, ethnic groups, stratification, and psychological implications of urban living. This course is primarily for freshmen and sophomores. It is open to juniors and seniors with the instructor's permission.

**2102 Introduction to Women's Studies (3)**

(Same as Sociol 2102 and Psych 2102). An introduction to the study of women's roles in a diverse and gendered culture and society. Through a variety of disciplinary perspectives in the humanities, social sciences, and natural sciences, it seeks to understand gender as a concept that affects both women and men. This course explores issues of power, identity, and relationship in women's lives.

**2150 Special Topics in Women's and Gender Studies (3)**

An introduction to a particular topic area in women's studies (topics will be announced prior to registration), drawing on the theories and methods of such disciplines as sociology, Psychology, political science, history, philosophy, art history, and others to examine particular aspects of women's experience in social and cultural life. Course may satisfy the distribution requirement for Humanities or Social Sciences depending on the topic.

**2170 Aging in America: Concepts and Controversies (3)**

(Same as Sociol 2170, Soc Wk 2170, and Geron 2170). This course examines the major theoretical and service issues connected to the study of older adults and their families, using multidisciplinary perspectives. Students are provided with an introduction to the field of aging through an examination of current social issues and controversies. This course emphasizes student involvement through class discussion, and is appropriate for students in the arts and sciences, business, communication, education, and nursing.

**3220 Science for the Middle School Teacher I (5)**

Prerequisites: Chem 1111, Biol 1811 and either Chem 1011 or Biol 1202. This course is intended to provide science content and pedagogical methods to students preparing to teach science at the middle school level. Science content in the first semester may include investigations of the properties of solids and solutions, chemical changes and conservation of matter, forces and simple machines, food webs, the environment and ecosystems, heat and radiation, waves and diffraction, static electricity and currents, but other topics from the middle school science curriculum could be substituted. Students will be expected to develop grade appropriate teaching materials, and complete individual and group investigations. Two hours of lecture, one hour of discussion, and two two-hour laboratory sessions per week.

**3221 Science for the Middle School Teacher II (5)**

Prerequisites: Intdsc 3220. This course is intended to provide science content and pedagogical methods to students preparing to teach science at the middle school level. Science content in the second semester may include the atmosphere and climate, rocks and minerals, water resources, cells, and living systems, reproduction and genes, biodiversity and adaptation, water cycles, the solar system, and earth as a planet, but other topics from the middle school science curriculum could be substituted. Students will be expected to develop grade appropriate teaching materials and complete individual and group investigations. Two hours of lecture, one hour of discussion, and two two-hour laboratory sessions per week.

**3352 Independent Studies in Women's and Gender Studies (1-3)**

Prerequisite: Junior standing; two courses in Women's and Gender Studies, including 2102; and consent of the instructor and the Institute. Directed independent work in selected Women's and Gender Studies topics through readings, research, reports and/or conferences. Course may satisfy the distribution requirement for the Humanities, Social Sciences or Math/Science depending on topic.

**3360 Photography and Society (3)**

(Same as Art Hs 3360). A study of photography as a means of information and expression, as an influence on culture, and as a reflection of concepts in politics, science, morality, and art.

**3690 The Marxist Heritage (3)**

(Same as Phil 3369, and Pol Sc 3690). Study of Marx and leading Marxists. Designed to evaluate their influence on recent political, economic, and social thought and institutions.

**4465 Topics in Photographic Studies (3)**

(Same as Art Hs 4465). Prerequisite: Permission of instructor. Advanced study of specific styles, periods, or issues within photographic history.

**5350 Topics in Women's and Gender Studies (3)**

Prerequisite: Junior standing and one Women's and Gender Studies course. This course will focus on a particular aspect of women's conditions (to be announced prior to registration) and will draw upon recent theoretical and methodological work in the field of women's and gender studies from a variety of disciplines. Course may satisfy the distribution requirement for Humanities or Social Sciences depending on the topic.

**5351 Theories of Feminism (3)**

Prerequisites: Junior standing and one Women's and Gender Studies course preferably ID 2102 or consent of instructor. An analysis of contemporary theories of feminism, including liberal, radical, socialist, and women-of-color perspectives, and an exploration of the underpinnings of feminist theory in major systems of thought.

**5353 Internship in Women's and Gender Studies (3)**

Prerequisite: 90 hours. 2.5 GPA, 12 WGST hrs. Internship would place the student in a profit or nonprofit setting for approximately ten hours a week in an internship structured and supervised by the Institute; consent of Director required; may include biweekly seminar. Student must present appropriate course background for either option, plus the above pre/co-requisites.

**6401 Inquiries in Women's and Gender Studies (3)**

Introduces graduate students to the field of women's studies, with particular focus on its vocabulary and evolution, its location within and relationship to the academy, and its predominant theoretical and methodological frameworks. Specific content will vary year to year. Strongly encouraged for graduate students in Women's and Gender Studies.

**6450 Seminar in Women's and Gender Studies (3)**

Critical examination of advanced topics in the humanities, social sciences, or natural sciences from women's and gender studies perspectives. May be taken more than once provided that the subject matter is different each time the seminar is taken.

**6452 Special Readings in Women's Studies/Gender Studies (3)**

Prerequisite: Admission to Graduate Certificate program and consent of instructor. Directed independent work on a selected Women's and Gender Studies topic through readings, research, reports, and/or conferences.

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# BULLETIN 2007

University of Missouri - St. Louis 2008

## Department of Philosophy

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### Department of Philosophy Home Page

#### Faculty

**Ronald Munson**, Professor, Chairperson  
Ph.D., Columbia University

**Stephanie Ross**, Professor  
Ph.D., Harvard University

**Lawrence Davis**, Associate Professor  
Ph.D., University of Michigan

**Jon McGinnis**, Associate Professor  
Ph.D., University of Pennsylvania

**Eric Wiland**, Associate Professor  
Ph.D., University of Chicago

**Anna Alexandrova**, Assistant Professor  
Ph.D., University of California-San Diego

**Berit Brogaard**, Assistant Professor  
Ph.D., SUNY-Buffalo

**John Brunero**, Assistant Professor  
Columbia University

**Robert Northcott**, Assistant Professor  
Ph.D., The London School of Economics and Political Science

**Gualtiero Piccinini**, Assistant Professor  
Ph.D., University of Pittsburgh

**Andrew Black**, Teaching Professor  
Ph.D., University of Massachusetts-Amherst

**David Griesedieck**, Teaching Professor  
M.A. Princeton University

**Donald Mertz**, Teaching Professor  
Ph.D., Saint Louis University

**Waldemar Rohloff**, Assistant Teaching Professor  
Ph.D., University of California-Irvine

**Peter Fuss**, Professor Emeritus  
Ph.D., Harvard University

**Robert M. Gordon**, Research Professor  
Ph.D., Columbia University

**John E. Clifford**, Associate Professor Emeritus  
Ph.D., University of California-Los Angeles

**Henry L. Shapiro**, Assistant Professor Emeritus  
Ph.D., Columbia University

Philosophy continues to keep alive the tradition begun by Socrates, Plato, and Aristotle of critically examining one's most cherished assumptions. Moreover, it deals with questions that are common to several areas of inquiry, such as art, ethics, the social sciences, the natural sciences, and the various professions. The study of philosophy also encourages logical precision, a heightened awareness of assumptions used in any discussion, and an attitude of both open-mindedness and responsible criticism toward new and unusual ideas. These skills are particularly useful for students planning careers in law, business, computer science, writing, or other fields requiring such disciplines of mind. For these reasons many students have found it useful to combine a major in another field with a major in philosophy. To accommodate such students, the department has a special program for double majors.

The philosophy faculty has an unusually wide range of research interests. Faculty members have written books and articles addressing not only the classical and traditional concerns of philosophy, but also contemporary controversies in the fields of law, psychology, sociology, political theory, biology, medical ethics, theology, logic, and philosophy of history as well. For their research in some of these areas, members have been

awarded a number of national research grants, including fellowships from the American Council of Learned Societies and the National Endowment for the Humanities.

In keeping with this emphasis on diversity, the department is represented by scholars trained in widely different approaches to philosophy, such as the analytic tradition, Continental Idealism and existentialism, Marxist dialectic, and Asian modes of thought.

## General Information

### Degrees and Areas of Concentration

The department offers two options leading to the B.A. degree in philosophy. The first is for students intending to enter graduate school in philosophy; the second is for students seeking a general liberal arts education as their ultimate academic objective or preparing for professional degrees such as law. Each option offers a balance of training in the techniques of logical analysis, study of philosophical classics, and examination of selected problems in philosophy. The department also offers a minor in philosophy for students wishing to pursue a particular interest in philosophy in an organized way.

## Undergraduate Studies

### General Education Requirements

Majors must meet the university and college general education requirements. Phil 1120: Asian Philosophy and Philosophy 1125: Islamic Philosophy satisfy the college cultural diversity requirement. Majors may not count philosophy courses taken on a satisfactory/unsatisfactory basis toward the degree requirements.

## Degree Requirements

### Bachelor of Arts in Philosophy

Students must complete one of the following programs. At least 30, but not more than 45, hours are required for a major. A minimum of 18 hours including all courses for the major at or above the 3000 level must be taken in residence in the UM-St. Louis Department of Philosophy.

#### Option One: The Major in Philosophy

30 hours of course work are required:

**1) Phil 3360:** Formal Logic

**2) History of Philosophy**

Twelve hours in history of philosophy, at least 6 hours of which must be at the 4000 level. Choose from Philosophy 3301-3307 and Philosophy 4401- 4422.

**3) Normative Philosophy**

One course from the following:

**Phil 4430:** Social and Political Philosophy

**Phil 4435:** Classical Ethical Theories

**Phil 4438:** Recent Ethical Theory

**Phil 4474:** Topics in Aesthetics

Phil 4474 cannot be used to satisfy both the normative requirement and requirement 5), the "other disciplines" requirement.

**4) Core Requirement**

One course from the following:

**Phil 4440:** Theories of Knowledge

**Phil 4445:** Metaphysics

**5) Philosophy and Other Disciplines**

Choose one course from the **Phil 4470 - 4490** sequence.

**6) Phil 4491:** Senior Seminar

**7) Other than the courses specified above, not more than SIX credits at the 1000 level may be used to satisfy the remaining nine hours of coursework requirements for the major. Video courses cannot be used to satisfy course requirements for this program.**

When appropriate, Phil 4451: Special Topics in Philosophy may be used to satisfy the requirement of number 3), 4), or 5).

Students in this program should take Greek, Latin, French, or German to satisfy the foreign language

requirement.

### **Option Two: The Double Major**

The Double Major is intended for students who plan to complete a major in another discipline as well as in philosophy. Thirty hours of course work in philosophy are required:

#### **1) Logic**

**Phil 3360:** Formal Logic

#### **2) History of Philosophy**

Six hours in history of philosophy, at least three hours of which must be at the 4000 level. Choose from the sequences Phil 3301-3307 and Phil 4401-4422.

#### **3) Core Requirement**

One course from the following:

**Phil 4440:** Theories of Knowledge

**Phil 4445:** Metaphysics

#### **4) 4000-level Courses**

A total of nine hours or more at the 4000 level other than courses used to satisfy 2), 3) and 5). Video courses cannot be used to satisfy course requirements for this program.

#### **5) Phil 4491:** Senior Seminar

#### **6) Electives**

Other than the courses above, courses at any level may be used to satisfy the remaining six hours of course requirements for the double major.

### **Departmental Honors**

Majors with a 3.2 or higher grade point average in all courses may, with the department's consent, earn departmental honors by completing at least six hours, but not more than nine, of Phil 4450: Special Readings in Philosophy, submitting an acceptable thesis before the end of the senior year, and passing an oral examination.

In such cases, the thirty hours required for the major will include the credit earned in Philosophy 4450: Special Readings, for the senior thesis.

### **Related Area Requirements**

Majors are urged to acquire a familiarity with some other field above the introductory level.

Transfer students planning to major in philosophy should consult the Department's undergraduate advisor as soon as possible in order to have their transcripts evaluated and plan a program of study.

### **The Minor**

15 hours of course work in philosophy are required:

#### **1) Phil 3360:** Formal Logic

**2)** A total of twelve hours at or above the 3000 level, at least six of which must be at the 4000 level. Video courses cannot be used to satisfy course requirements for this program.

Minors are strongly encouraged, though not required, to take Phil 4491: Senior Seminar.

All course work for the minor except Philosophy 3360 must be taken in residence in the UM-St. Louis Department of Philosophy.

A GPA of 2.0 or better is required in courses presented for the minor. Prospective minors are encouraged to consult with members of the department for advice in planning an appropriate sequence of courses.

### **Graduate Studies**

#### **Master of Arts in Philosophy**

To earn a M.A. in philosophy, students must complete at least 36 hours of graduate-level work and pass two comprehensive exams. Entering students must demonstrate a competence in logic, either by having passed the relevant course prior to admission or by taking Phil 5561: Graduate Formal Logic here at UM-St. Louis. Students should take Phil 5400: Proseminar in Philosophy in the first year of residency. Students may elect to write a thesis, in which case up to 6 hours may be devoted to research and writing. Two-thirds (24 credit hours) of the degree program, including the thesis for students taking that option, must be completed in residence at UM-St. Louis. In addition, the courses taken are subject to two distribution requirements:

- 1) At least half of the courses must be at the 5000 level.
- 2) At least one course (3 credit hours) must be chosen from each of the following four subject areas:
  - Value Theory
  - History of Philosophy
  - Logic/Philosophy of Science
  - Epistemology/Metaphysics

The comprehensive exams must be taken in two of these four areas.

The comprehensive exams must be taken in two of these four areas.

### **2+3 B.A. and M.A. in Philosophy**

The Combined B.A./M.A. Program in Philosophy provides an opportunity for students of recognized academic ability and educational maturity to fulfill integrated requirements of undergraduate and master's degree programs in three years from the beginning of their junior year. When all the requirements of the B.A./M.A. program have been completed, students will be awarded both the B.A. and M.A. degrees. With a carefully designed program, a student can earn both degrees within as few as ten semesters.

The Combined Program requires a minimum of 138 credit hours, of which at least 36 must be at the upper division level course numbers in the 4000-5999 range. In qualifying for the B.A., students must meet all university and college requirements, including all the requirements of the regular undergraduate major in philosophy described above. Students will normally take Philosophy 3360: Formal Logic and two courses in the 3301-3307: History of Philosophy sequence in their junior years, along with electives. Any courses still needed to satisfy college foreign language and expository writing requirements would also be taken during this year. Phil 4491: Senior Seminar and more specialized courses are taken in the senior year. In the fifth year, students take advanced electives and such required courses as are needed to fulfill remaining university, Graduate School, and departmental requirements for the M.A. This includes satisfactory completion of 36 graduate credit hours, at least 18 of which must be in courses numbered above 5000 and among which must be at least three in each of the four subject areas listed for the regular M.A. program, and one of which must be Philosophy 5400: Proseminar in Philosophy. Students are also required to earn a passing grade in comprehensive exams in each of two of these subject areas. See description below. Up to 12 graduate credit hours may be applied simultaneously to both the B.A. and M.A. requirements. Also, students may elect to write a thesis, in which case up to six hours may be taken in Phil 5495: Thesis Research.

Students should apply to the Graduate Committee for admission to the Combined B.A./M.A. Program in Philosophy the semester they will complete sixty undergraduate credit hours or as soon thereafter as possible. It is also recommended that students complete the foreign language requirement and the junior-level writing requirement before applying. A cumulative grade point average of 3.0 or higher and three letters of recommendation from faculty are required for consideration.

Students will be admitted to the Combined Program under provisional status until they have completed fifteen credit hours in it with a grade point average of 3.0 or higher. After the completion of the provisional period, and with the recommendation of the Graduate Committee, students can be granted full admission into the program. Students must maintain a grade point average of 3.0 or higher throughout the Combined Program. Students who officially withdraw from the Combined Program who have successfully completed all the requirements for the B.A. degrees will be awarded the B.A. degree.

### **Philosophy Requirements for Students in the 2+3 Program**

#### **A. To be taken in the junior year:**

Choose four courses (12 credit hours) from the following:

- 1) **Phil 3360:** Formal Logic
- 2) Two courses in the History of Philosophy, each at the 2000 level or above.
- 3) One additional Philosophy course, at the 2000 level or above.

#### **B. To be taken in the senior year:**

Choose six courses (18 credit hours) from the following:

**4491:** Senior Seminar

Either

**Phil 4445:** Metaphysics or

**Phil 4440:** Theories of Knowledge.

Two History courses, each at the upper division

One course from the sequence 4470-4490

Choose one of the following:

**Phil 4430:** Social and Political Philosophy

**Phil 4435:** Classical Ethical Theory

**Phil 4438:** Recent Ethical Theory

**C. To be taken in the final year of the program:**

Six courses (18 credit hours)

1) At least 5 of these courses must be at or above the 5000 level.

2) Courses must be selected so that the student has taken at least one from each of the four subject areas in the course of completing the 2 + 3 program:

- Value Theory
- History of Philosophy
- Logic/Philosophy of Science
- Epistemology/Metaphysics

3) **Phil 5400:** Proseminar in Philosophy

**D. Graduate Exit Requirements**

Each student must pass a comprehensive exam in two of the four subject areas listed in 2) of part C above.

**Cooperative arrangement with Saint Louis University.**

The strengths of the UM-St. Louis Philosophy Department are complemented by those of the Saint Louis University Philosophy Department, which has strengths in the history of philosophy as well as in philosophy of religion. To enhance students' opportunities for instruction and expertise, the two departments have worked out a cooperative arrangement that permits graduate philosophy students on each campus to take up to four courses at the partner institution. In any given semester, UM-St. Louis graduate students must take at least half of their courses at their home institution. Students admitted to the M.A. program on a probationary basis must take all their courses at UM-St. Louis during their first semester.

**Course Descriptions**

Prerequisites may be waived by consent of the department. Students who have earned 24 or more semester hours of credit at any accredited post-secondary institutions(s) before the start of the fall 2002 semester must meet the general education requirements stipulated in the UM-St. Louis 2001-2002 Bulletin. The following courses fulfill the Humanities breadth of study requirements as described in that Bulletin: 1090, 1091, 1110, 1111, 1120, 1125, 1130, 1150, 1160, 1185, 2250, 2255, 2252, 2253, 2254, 2255, 2256, 2258, 2274, 2275, 2280, 2281, 3301, 3302, 3303, 3304, 3305, 3307, 3360, 3369, 3372, 3374, 3379, 3380, 3383, 3385, 4401, 4402, 4405, 4406, 4407, 4408, 4409, 4410, 4420, 4421, 4422, 4430, 4435, 4438, 4439, 4440, 4445, 4450, 4451, 4452, 4453, 4457, 4458, 4460, 4465, 4469, 4470, 4474, 4476, 4478, 4479, 4482, 4483, 4484, 4485, 4487, 4490, 4491.

Phil 1120, 1125 fulfill the Cultural Diversity requirement [CD]. Courses marked [CV] or [H] fulfill the valuing and humanities requirements, respectively.

**1090 Telecourse: Philosophy and Other Disciplines (3) [V,H]**

Video course offering. General introduction to philosophy examines its connections to works of art and related areas. Course does not satisfy any requirements for philosophy major or minor.

**1091 Telecourse: Significant Figures in Philosophy [V,H]**

Video course introduces philosophy through a survey of the ideas of some of the important figures in the history of the discipline. Course cannot be used to satisfy any requirements for philosophy major or minor.

**1110 Western Philosophy I: Antiquity to the Renaissance (3) [V,H]**

Lectures and discussions tracing the development of Western philosophy from its beginnings among the pre-Socratics through the Middle Ages and Renaissance. Philosophical ideas will be examined in the cultural and historical context: the Greek city-state, the rise of Christianity, etc.

**1111 Western Philosophy II: Descartes to the Present (3) [V,H]**

Lectures and discussions on the development of Western philosophy from Descartes (1596-1650) to the present. Philosophical ideas will be examined with an eye to their historical and cultural setting: the rise of modern science, the industrial revolution, the rise of capitalism, etc.

**1120 Asian Philosophy (3) [CD,V,H]**

Critical study of selected philosophical classics of India and China.

**1125 Islamic Philosophy (3) [CD,V,H]**

Introduction to Arabic philosophy in the Islamic classical period (roughly from mid-9th through 12th centuries). Considers philosophical and theological background and examines the thought of such notable Islamic philosophers as al-Kindi, Ibn Sina, al-Ghazali, and Ibn Rushd. Topics include proofs for the existence of God,

whether the world is eternal or had a beginning, the nature of the soul and whether it is immortal, and distinction between essence and existence.

**1130 Approaches to Ethics (3) [V,H]**

A study and discussion of representative topics in moral philosophy such as moral skepticism, moral objectivity, theories of obligation and value, evaluation of social institutions, and the relation between morality and science. Traditional and contemporary writers will be considered.

**1150 Major Questions in Philosophy (3) [V,H]**

A study and discussion of representative topics in philosophy such as free will and determinism, concepts of mind and body, the basis of value judgments, knowledge and belief, and the possibility of constructing a world view.

**1160 Logic and Language (3) [V,H]**

An introduction to the language and logical structure of arguments, the principles of sound reasoning, and application of these principles in a variety of contexts.

**1175 Arts and Ideas (3)**

Art 1175, English 1175, Hist 1175, M H & L 1175, Th&Dan 1175. An Interdisciplinary course tied to the semester's offerings at the Blanche Touhill Performing Arts Center as well as other events on campus featuring the visual arts, literature, music, and film. Each semester the course will provide background on the arts in general and will critically examine particular performances and offerings. Special themes for each semester will be selected once the Touhill schedule is in place. Students will be expected to attend 6-8 performances or exhibitions. Can be repeated once for credit.

**1185 Philosophy of Religion (3) [V,H]**

A philosophical investigation of such problems as the nature of religious faith and experience, the relation of faith and reason, alternative concepts of deity, and the problem of evil.

**2250 Philosophy and Current Issues (3)**

A careful examination of such current social controversies as women's liberation, the ethics of abortion, public accountability of holders of high offices, and the subtler forms of racism and other prejudices. Although there is no formal prerequisite, it is recommended that students have taken, or be concurrently enrolled in, at least one other philosophy course.

**2252 Philosophical Foundations of Criminal Justice (3) [V,H]**

Same as Crimin 2252. Addresses fundamental conceptual and ethical issues that arise in the context of the legal system. Questions may include: How does punishment differ from pre-trial detention? How, if at all, can it be justified? Is the death penalty ever justified? When is it morally permissible for juries to acquit defendants who are legally guilty? Is plea bargaining unjust? Why might people be morally obligated to obey the laws? Are Laws restricting civil liberty (e.g., laws against abortion, homosexuality, or drug use) permissible?

**2253 Philosophy and Feminism (3) [V,H]**

Same as WGST 2253. A critical examination of what various philosophers have said about issues of concern to women. Sample topics include oppression, racism, women's nature, femininity, marriage, motherhood, sexuality, pornography, the ethics of care.

**2254 Business Ethics (3) [V,H]**

A critical survey from the perspective of moral theory of businesses and business practices. Topics vary but usually include some of the following: whether the sole moral obligation of businesses is to make money; whether certain standard business practices, e.g., the creation of wants through advertising, are moral; whether businesses ought to be compelled, e.g., to protect the environment or participate in affirmative action programs.

**2255 Environmental Ethics (3)**

Examines such issues as the value of wilderness, our duties to animals and the natural world, pollution and development, environmental justice.

**2256 Bioethics (3) [V,H]**

Same as Geron 2256. An examination of ethical issues in health care practice and clinical research and in public policies affecting health care. Topics include abortion, euthanasia, health care, experimentation, informed consent, and the right to health care.

**2258 Medicine, Values, and Society (3) [V,H]**

Social, conceptual, and policy issues connected with medicine form the focus of the course. Topics may include: role played by race and gender in design of research and distribution of care; whether diseases are socially constructed categories reflecting the values of society; development of social policies that offer universal access to health care; the legitimacy of using Psychotropic drugs to enhance life, rather than treat

disease. The course differs from Bioethics by emphasizing policy issues and their conceptual basis. Content of this course may vary.

**2259 Engineering Ethics (3)**

An examination of ethical issues in engineering using professional engineering codes as a starting point. The course will have a problem solving orientation, focusing on the analysis of particular cases. Actual high-profile cases such as the Challenger disaster will be considered, as well as hypothetical cases illustrating the more commonly encountered moral problems in engineering (such as accepting gifts from vendors). Topics include the engineer/manager relationship, engineers and the environment, honest in engineering, and risk, safety, and liability.

**2274 Philosophy and Literature (3)**

Critical reading and discussion of selected literary works in terms of the philosophical problems they present.

**2275 Philosophy and Film (3)**

Study of selected films with emphasis on philosophical problems they address. Attention will be paid to film as an artistic medium and the capacities that distinguish it from other visual, and narrative, arts.

**2280 Minds, Brains, and Machines (3) [V,H]**

Introduction to basic philosophical issues in cognitive science. General topics include minds as computers; computers as minds, or the possibility of artificial intelligence that is truly intelligent; relationship between mental function and brain function. Some areas of current research, such as reasoning, vision, and emotion.

**2281 Darwinism and the Philosophy of Biology (3)**

Prerequisites: Six hours of philosophy graduate standing, or consent of instructor. Examines Darwin's theory of evolution by natural selection and its philosophical consequences. Besides the theory itself, topics may include (but are not limited to): how we can test evolution and what the evidence is for it; the design argument; adaptationism; evolutionary psychology; evolution and morality; the fact-value distinction; nature versus nurture; differences between humans and other animals; evolution and human history; genetic engineering and possible futures.

**3301 Ancient Philosophy (3)**

Freshmen admitted by consent of department. The principal philosophical doctrines of the ancient world, with special emphasis on the philosophies of Plato and Aristotle. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

**3302 Medieval Philosophy (3)**

A critical study of the important philosophies of the period from Augustine to the Renaissance. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

**3303 Early Modern Philosophy (3)**

Principal figures in the development of rationalism, empiricism and skepticism in early modern Europe, from Descartes through Hume. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

**3304 Kant and Nineteenth-Century Philosophy (3)**

A study of Kant and such major nineteenth-century figures as Hegel and Nietzsche, Mill, and Peirce. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

**3305 Twentieth-Century Philosophy (3)**

Representative topics in contemporary philosophy, with readings selected from pragmatism, logical positivism, linguistic analysis, and existentialism. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

**3307 American Philosophy (3)**

Prerequisite: Six hours of philosophy or consent of instructor. A study of selected American philosophers.

**3360 Formal Logic (3)**

An introductory study of logical truth and deductive inference, with emphasis on the development and mastery of a formal system.

**3369 The Marxist Heritage (3)**

Same as Pol Sc 3690 and Intdsc 3690. Study of Marx and leading Marxists. Designed to evaluate their influence on recent political, economic, and social thought and institutions.

**3372 Philosophical Issues in Education (3)**

A critical study and discussion of selected topics in education, including the distinctive features of education as an activity and achievement, concepts of teaching and learning, relations between education and values, and

the functions of a university.

**3374 Philosophy of Art (3)**

Same as Art Hs 3374. A study of issues concerning the definition of art, meaning and truth in the arts, aesthetic experience, and criticism.

**3378 Philosophy of Mind (3)**

Prerequisites: Three hours of philosophy or consent of instructor. An introduction to philosophical issues pertaining to the mind. Topics may include how the mind relates to the body, how the mind represents the world, how the mind works, consciousness, and free will.

**3380 Philosophy of Science (3)**

An examination of science: what makes science special? Topics may include (but are not limited to): empiricism and scientific method; confirmation and the problem of induction; paradigms and revolutions; explanation, causation and laws; realism versus instrumentalism; critiques of science such as those of feminism or postmodernism; and reductionism – ultimately is it all just physics?

**3383 The History of Science in Philosophical Perspective (3)**

Course explores philosophical underpinnings of science, including assumptions about the nature of reality and about scientific methods, the role of logic and mathematics in science, and revolutions in science. These issues will be studied by exploring concrete examples of science, and tracing developments and changes in understandings of science. Content will vary, but the particular periods of science studied will typically include two or three of the following: ancient science, medieval science, early modern science, 19th century science, and/or 20th century science.

**3385 Issues in Philosophy of Religion (3)**

Prerequisite: Phil 1185 or Phil 1150 or consent of instructor. A careful examination of a selected topic in philosophy of religion or of philosophical issues arising in a selected religion. The topic or religion to be considered will be announced prior to registration. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**4401 Plato (3)**

Prerequisite: Six hours of philosophy, a course in Ancient Philosophy recommended, graduate standing, or consent of instructor. A study of selected Platonic dialogues.

**4402 Aristotle (3)**

Prerequisite: Six hours of philosophy, a course in Ancient Philosophy, recommended, graduate standing, or consent of instructor. A selective study of Aristotle's major works.

**4405 The Rationalists (3)**

Prerequisite: Six hours of philosophy, a course in Ancient Philosophy recommended, graduate standing, or consent of instructor. An examination of the philosophies of such major figures as Descartes, Spinoza, and Leibniz.

**4406 The British Empiricists (3)**

Prerequisite: Six hours of philosophy, a course in Early Modern Philosophy recommended, graduate standing, or consent of instructor. An examination of the philosophies of such major figures as Locke, Berkeley, and Hume.

**4407 Kant (3)**

Prerequisite: Six hours of philosophy, Phil 3304 or equivalent recommended, graduate standing, or consent of instructor. A systematic study of the Critique of Pure Reason.

**4408 Hegel (3)**

Prerequisite: Six hours of philosophy, Phil 3304 or equivalent recommended, graduate standing, or consent of instructor. A critical study of the writings and influence of Hegel.

**4409 Phenomenology and Existentialism (3)**

Prerequisites: Six hours of philosophy, Phil 3305 or equivalent recommended, graduate standing, or consent of instructor. A study of some major representatives of these schools from Kierkegaard to the present.

**4410 Significant Figures in Philosophy (3)**

Prerequisite: Nine hours of philosophy, graduate standing, or consent of instructor. Examination of the work of an important twentieth-century philosopher or philosophical movement. The philosopher or movement to be studied will be announced prior to registration. This is a variable content course that may be taken again for credit with approval of instructor and department chair.

**4420 Topics in Non-Western Philosophy (3)**

Prerequisites: Phil 1120, graduate standing, or consent of instructor. An extensive exploration of issues in

some particular non-Western traditions (Islamic, Indian, or Chinese). This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**4421 The Analytic Tradition I: Origins to Logical Positivism (3)**

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. Phil 3305 and Phil 3360 strongly recommended. Course studies in depth the development of analytic philosophy through about 1950. Topics include key philosophical writings in this tradition beginning with Frege, Moore, and Russell and concluding with basic texts in logical positivism, with emphasis on Carnap, Schlick, Neurath and Hempel.

**4422 The Analytic Tradition II: Post-Positivism to Present (3)**

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. Phil 3305 and Phil 3360 strongly recommended. Study of reactions and responses to basic analytic techniques and positivist doctrines beginning with Wittgenstein, Quine, and Sellars. Implications of these critiques for style and substance of analytic philosophy are studied, including such contemporary developments as reassessment of positivism, revival of naturalism, and "death" of philosophy.

**4430 Social and Political Philosophy (3)**

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. An analysis of some fundamental concepts and assumptions involved in the theory and practice of social and political organization.

**4435 Classical Ethical Theories**

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. Significant contributions to moral philosophy from Plato and Aristotle to Bentham and Mill.

**4438 Recent Ethical Theory (3)**

Prerequisite: Six hours of philosophy, graduate standing or consent of instructor. A study of major contributions to twentieth-century ethics, including works by such writers as Moore, Dewey, Ross, Stevenson, Hare, and Rawls.

**4439 Topics in Ethical Theory (3)**

Prerequisite: Phil 4435, 4438, nine hours of philosophy, graduate standing, or consent of instructor. Formulation and evaluation of major theories in normative ethics, metaethics, and axiology. Topics include egoism, moral realism, act and rule utilitarianism, and varieties of naturalism and non-naturalism in ethics. This is a variable content course and can be taken again for credit with consent of instructor and department chair.

**4440 Theories of Knowledge (3)**

Prerequisite: Six hours of philosophy, graduate standing, or consent of instructor. An examination of concepts and problems involved in the characterization of knowledge. Specific topics will vary, but will usually include knowledge, belief, skepticism, evidence, certainty, perception, truth, and necessity.

**4445 Metaphysics (3)**

Prerequisite: Six hours of philosophy, graduate standing, or consent of instructor. An examination of selected metaphysical topics such as substance, universals, causality, necessity, space and time, free will, being, and identity.

**4450 Special Readings in Philosophy (1-3)**

Prerequisite: Special consent required. Independent study through readings, reports, and conferences. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**4451 Special Topics in Philosophy (3)**

Prerequisite: Six hours of philosophy, graduate standing, or consent of instructor. A critical study of classical and/or contemporary contributions to a selected topic in philosophy. The topic to be considered will be announced prior to registration. This is a variable content course and can be taken again for credit with the consent of the instructor and department chair.

**4452 Feminism and Science (3)**

Same as WGST 4452. Prerequisite: Six hours of philosophy, graduate standing, or consent of instructor. This course will explore major themes and issues in feminist science scholarship, a body of research that focuses on the relationship between science and gender. Feminist research in the philosophy and history of science, and in the biological sciences, are emphasized. Issues include: the nature of objectivity, evidence, and truth; the factors that contribute to the acceptance or rejection of research hypotheses and theories; the nature and consequences of science's cognitive authority; and the relationship between science and values.

**4453 Feminist Ethical Theory (3)**

Prerequisite: Phil 2253, six hours of philosophy, or consent of instructor. Examines two classic 18th century statements of sympathy-based moral theory in the works of Adam Smith and David Hume. The course, then looks at a number of contemporary works that attempt to delineate a decisively feminist ethical theory, e.g.,

the work of Carol Gilligan, Nel Nodding, and Virginia Held. The course explores as well differences among female, feminist, and lesbian ethical standpoints.

**4457 Media Ethics (3)**

Same as Media 4357. Prerequisite: nine hours of philosophy or nine hours of communication or consent of instructor. This course is concerned with some of the issues that arise from the intersection of ethics and modern media communications. Attention is given to some of the more specific concerns of media ethics, such as truth, honesty, fairness, objectivity and bias; personal privacy and the public interest; advertising; conflicts of interest; censorship and offensive or dangerous content (pornography, violence). Particular attention will be given to problems posed by the development of personal computer communications through bulletin boards, on-line services, and the Internet.

**4458 Ethics and the Computer**

Prerequisites: 6 hours of course work above the level of Math 1030 in Math/Computer Science or at least 6 hours of philosophy or consent of instructor. Examination of ethical issues concerning the use of computers generally and software engineering in particular. Aims at developing awareness of these issues and skills for ethical decision making regarding them through careful, analytical methods. Typical issues include privacy, intellectual property, computer fraud, and others.

**4460 Advanced Formal Logic (3)**

Prerequisite: Phil 3360, graduate standing, or consent of instructor. Rigorous study of major developments in contemporary logic. Emphasis is given to theoretical problems and some attention is devoted to philosophical issues arising from logic.

**4465 Theory of Decisions and Games (3)**

Prerequisite: Six hours of Philosophy and junior standing, Pol Sc 6401 (or the equivalent) or consent of instructor. Same as Pol Sc 4060. A study of rational decision making, including games against nature, zero-sum games and social choices. Topics will include the following: expected utility maximization, the Prisoner's Dilemma, Nash equilibria, and Arrow's theorem on the impossibility of a social welfare function. Parts of the course are technical in nature; a prior course in mathematics e.g., finite mathematics, calculus, statistics or an economics course with a mathematical component, symbolic logic, or some other course with comparable mathematical content is strongly recommended.

**4469 Topics in Political Philosophy (3)**

Prerequisite: Nine hours of philosophy, graduate standing, or consent of instructor. Critical examination of philosophical theories of democracy, individual autonomy, political community, social justice, and other selected issues in political philosophy.

**4470 Topics in Philosophy of Language (3)**

Prerequisite: Six hours of philosophy, graduate standing, or consent of instructor. Intensive examination of selected problems encountered in developing philosophical accounts of truth, reference, propositional attitudes, and related concepts. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**4474 Topics in Aesthetics (3)**

Prerequisite: Phil 3374, graduate standing, or consent of instructor. Selected topics, such as vision and representation, musical aesthetics, and recent theorists. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**4476 Philosophy of History (3)**

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. Discussion and analysis of some philosophical problems raised by historical inquiry, such as subjectivity, relativism, the role of value judgments, and the nature of historical explanations.

**4478 Topics in Philosophy of Mind (3)**

Prerequisite: Phil 3378 or six hours of other philosophy courses graduate standing, or consent of instructor. An examination of selected topics at the interface of philosophical and psychological research. This is a variable content course and can be taken again for credit with consent of instructor and department chair.

**4479 Philosophy of Cognitive Science (3)**

Prerequisite: Phil 3378 or Phil 4478 or nine hours of other philosophy courses or consent of instructor. An exploration of the philosophical foundations and implications of cognitive science, a cooperative effort of philosophers, cognitive Psychologists, brain scientists, computer scientists, and others to understand the relationship between the mind and the brain.

**4482 Philosophy of Social Science (3)**

Prerequisite: Six hours of philosophy or consent of instructor. An intensive examination of selected topics such as the nature theory, and the postmodernism debate e.g., Habermas of explanation in social science versus

natural science, interpretation, Foucault, Clifford. This course may be repeated for credit on approval by the department.

**4483 Topics in History and Philosophy of Science (3)**

Prerequisites: Six hours of philosophy (Phil 3380, strongly recommended), graduate standing, or consent of instructor. Examines in depth a particular topic or topics from either the history or philosophy of science. This is a variable content course and may be taken again for credit with the consent of the instructor and department chair.

**4484 Topics in History and Philosophy of Medicine (3)**

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. Focuses on the rise of philosophical issues associated with scientific medicine, including the emergence of physiology; identification of infectious and genetic diseases; development of effective drugs; rise of diagnostic and therapeutic technologies. Topics may include: disease concepts, the classification of diseases, logic of clinical diagnosis, medical explanation, and clinical decision-making. Topics may also include development of special medical areas such as immunology, cancer treatments, or organ transplantation. This is a variable content course and may be taken again for credit with consent of instructor and the department chair.

**4485 Topics in Philosophy of Religion (3)**

Prerequisite: Phil 3385, nine hours of philosophy, or consent of instructor. An intensive study of problems arising out of traditional and contemporary philosophical theology. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

**4487 Topics in Philosophy of Law (3)**

Same as Crimin 4487. Prerequisite: Crimin 1100 and 3 hours of philosophy, graduate standing or consent of instructor. An intensive study of recent philosophical debate about such issues as the authority of law, legal equality and justice, legal responsibility, self-determination and privacy, and legal punishment. This is a variable content course and may be taken again for credit with consent of the instructor and the department chair.

**4490 Philosophical Issues in Other Disciplines (3)**

Prerequisite: Nine hours in philosophy, graduate standing, or consent of instructor. An examination of selected philosophical issues in a discipline other than philosophy. One or more such disciplines as history, political science, psychology, sociology, biology, chemistry, physics, or mathematics will be chosen, and philosophical issues selected and announced prior to registration, usually in consultation with the other department concerned. This course is normally taught as a seminar and attempts to serve advanced students in other departments with or without previous background in philosophy. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

**4491 Senior Seminar (3)**

Prerequisites: Senior standing; at least 12 hours of philosophy at the 1000 level or above; or consent of instructor. Intensive study of a central philosophical problem. The course emphasizes the fundamentals of philosophical writing and scholarship. Students will write a major paper to be evaluated by two members of the Philosophy Department and the course instructor.

**5400 Proseminar in Philosophy (3)**

Prerequisites: Graduate standing. Required of all entering graduate students in the fall semester of the first full year of residency. Topics vary. Other graduate students may take this course with the permission of the instructor and the director of graduate studies in Philosophy. Students will be expected to write papers, give presentations, and join in class discussion.

**5410 Seminar in Significant Figures in Philosophy (3)**

Prerequisites: Graduate Standing. In-depth study of work of a single philosopher. The philosopher selected will be announced prior to registration. This is a variable-content course any may be taken again for credit with consent of instructor and department chair.

**5478 Seminar in Philosophy of Mind (3)**

Prerequisites: Graduate standing. Topics may include functionalism and physicalism; representation and nature of propositional attitudes such as belief, desire, and various emotions; folk psychology and knowledge of other minds; introspection and knowledge of one's own mind; conscious and unconscious mental states and processes. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5515 Ethics in Criminology and Criminal Justice (3)**

Same as Crimin 5515. Prerequisite: Crimin 1110, 1120, 1130, 2110, 2220, Phil 2253, 2254, 2256, 4430, 4435, 4438, or consent of instructor. Examination of major ethical issues encountered in criminology and criminal justice research and practice.

**5521 Seminar in Analytic Philosophy (3)**

Prerequisites: Graduate standing or consent of instructor. Intensive study of selected topics, texts, or individuals in historical or contemporary analytic philosophy. Topics may include, but are not limited to, Frege semantics, Russell's theory of definite descriptions, logical positivism, Wittgenstein's philosophy of language, Quine on the analytic/synthetic distinction, Kripke possible-world semantics, theories of propositions, the analysis of knowledge, contextualism in epistemology and language, relativistic semantics, epistemic two-dimensionalism, conceivability vs. possibility, three-dimensionalism vs. four-dimensionalism, presentism vs. eternalism, and applications of core concepts in other areas of philosophy. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5530 Seminar in Social and Political Philosophy (3)**

Prerequisites: Graduate standing or consent of instructor. An intensive study of contemporary philosophical debate about such issues such as civil liberty, economic justice, political decision-making, and state authority. Variable content course and may be taken again for credit with consent of instructor and department chair.

**5531 The Nature of Punishment (3)**

Same as Crimin 5531. Prerequisite: Graduate standing. The historical development of punishment philosophies and techniques. Topics include the emergence of the modern prison, the joining of medical and legal treatment, and rationales for alternative forms of punishment.

**5533 Philosophy of Law (3)**

Same as Crimin 5533. Prerequisite: Graduate standing or consent of instructor. Examination of origins of law and the basis for legal obligation. Specific consideration of the justification of punishment, morality and law, and legal reasoning.

**5538 Seminar in Ethical Theory (3)**

Prerequisites: Graduate standing or consent of instructor. Answers questions from normative ethics or metaethics, which may include the following: What do all morally wrong actions have in common? What does the word "wrong" mean? How, if at all, can we verify moral judgements? Are any moral judgements valid for all societies? Do we always have good reason to be moral?

**5540 Seminar in Epistemology (3)**

Prerequisites: Graduate standing or consent of instructor. Close study of selected topics, texts, or individuals in epistemology. Topics may include (but are not limited to) theories of justification, naturalism in epistemology, and conceptions of knowledge. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5545 Seminar in Metaphysics (3)**

Prerequisites: Graduate standing. Intensive study of a selected topic or problem area in metaphysics, e.g., mind-body identity, nature of the self, or conception of time. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5546 Seminar in Modality (3)**

Prerequisites: Graduate standing or consent of instructor.

Intensive study of selected topics, texts, or individuals in modality. Topics may include (but are not limited to): Kripke semantics, Lewis' genuine modal realism about possible worlds, linguistic ersatzism, epistemic two-dimensionalism, conceivability vs. possibility, theories of epistemic modals, theories of propositional attitude reports, theories of knowability, provability, and computability, modal paradoxes, and applications of core concepts in other areas of philosophy. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5551 Special Readings in Philosophy (3)**

Prerequisites: Graduate standing, written consent of instructor. Independent study through readings, reports, and conferences. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5555 Ethical and Legal Issues in Criminal Justice (3)**

Same as Crimin 5555. Prerequisite: Graduate standing or consent of instructor. Examination of the moral and legal aspects of the policies and practices of criminal justice agencies and agents. Issues may include treatment of offenders, the role of technology, and research and professional ethics.

**5560 Seminar in Logic (3)**

Prerequisites: Graduate standing. Focused study of topics in logic and/or its history. Representative topics include Aristotelian logic, modal logic, Gödel incompleteness theorems, relevance logic, paraconsistent logic, free logic. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5561 Graduate Formal Logic (3)**

Prerequisites: Graduate standing; permission of the department. A rigorous introduction to formal logic that includes sentential calculus, predicate logic, and completeness proofs. May be taken for graduate credit only with permission of the graduate advisor and chair.

**5570 Seminar in Philosophy of Language (3)**

Prerequisites: Graduate standing or consent of instructor. Close study of selected topics, texts, or individuals in the philosophy of language. Topics may include (but are not limited to): theories of indexicals and demonstratives, theories of proper names and descriptions, sense and reference, compositionality, natural language semantics, syntax pragmatics, applications of core concepts in other areas of philosophy. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5579 Seminar in Philosophy of Cognitive Science (3)**

Prerequisites: Graduate standing. General topics include role of computation in cognitive science, merits of symbolic computation and connectionism, aims and methods of artificial intelligence, and relationship between cognitive science and our everyday understanding of people. Specific topics may include perception, reasoning, consciousness, language, emotion, and will. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5580 Seminar in Philosophy of Science (3)**

Prerequisites: Graduate standing or consent of instructor. Focus on recent issues and controversies. Topics may include theories and observation, models of explanation, confirmation, realism and antirealism, empiricism and naturalism, "social construction" and feminist views of science. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5582 Seminar in Philosophy of Social Science (3)**

Prerequisites: Graduate standing or consent of instructor. Intensive examination of selected topics, such as the nature of explanation in social science, rationality, value-freedom and objectivity, or relation of social to natural sciences. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5590 Philosophical Issues in Other Disciplines (3)**

Prerequisites: Graduate standing or consent of instructor. Examination of selected philosophical issues in disciplines other than philosophy. One or more such disciplines as history, political science, psychology, sociology, biology, chemistry, physics, or mathematics will be chosen. The discipline(s) and issues selected will be announced prior to registration. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

**5595 Thesis Research (1-6)**

Prerequisites: Graduate standing or consent of instructor. May be repeated to a total of six credit hours.

**6421 Philosophy of Education (3)**

Prerequisites: Graduate standing or consent of instructor. Same as Ed Fnd 6421. Critical examination of selected issues in education from the perspective of Western philosophy. Topics may include the distinctive features of education as an activity and achievement, concepts of teaching and learning, relations between education and values, and the role of public educational institutions.

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# BULLETIN 2007

University of Missouri - St. Louis

# 2008

## Department of Physics and Astronomy

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### Department of Physics and Astronomy Home Page

#### Faculty

**Bruce A. Wilking**, Professor, Chairperson  
Ph.D., University of Arizona

**Jacob J. Leventhal**, Curators' Professor  
Ph.D., University of Florida

**Frank Edward Moss**, Curators' Professor  
Ph.D., University of Virginia

**Ta-Pei Cheng**, Professor Emeritus  
Ph.D., Rockefeller University

**Bernard Joseph Feldman**, Professor  
Ph.D., Harvard University

**Ricardo A. Flores**, Professor  
Ph.D., University of California-Santa Cruz

**Thomas F. George**, Professor and Chancellor  
Ph.D., Yale University

**Peter Herwig Handel**, Professor  
Ph.D., University of Bucharest

**Bob Londes Henson**, Professor  
Ph.D., Washington University

**Jingyue Liu**, Professor  
Ph.D., Arizona State University

**Richard Dean Schwartz**, Professor Emeritus  
Ph.D., University of Washington

**Philip Fraundorf**, Associate Professor  
Ph.D., Washington University

**Wilfred H. Sorrell**, Associate Professor  
Ph.D., University of Wisconsin

**Sonya Bahar**, Assistant Professor  
Ph.D., University of Rochester

**Erika Gibb**, Assistant Professor  
Ph.D., Rensselaer Polytechnic Institute

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Ph.D., Washington University

**Michael Fix**, Associate Teaching Professor  
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**Mary Jane Kernan**, Associate Teaching Professor  
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**Vassiliy Tsytarev**, Research Assistant Professor

Ph.D., St. Petersburg State University, Russia

## General Information

### Degrees and Areas of Concentration

The Department of Physics & Astronomy offers course work leading to the B.A. in physics, the B.S. in physics, and in cooperation with the College of Education, the B.A. in physics with teacher certification and the B.S. in education with an emphasis in physics.

The Department offers meritorious students opportunities to participate in teaching and research to help prepare them for the independent effort required in industry or graduate school. The department's faculty members have a diversity of interests and are active in various experimental and theoretical research areas.

Graduate work leading to the Master of Science in physics is also offered. The M.S. in physics program combines a sound basis in the fundamental areas of classical and modern physics from both a theoretical and an applied perspective. The program is designed to enable students with undergraduate backgrounds in physics or other technical areas to further their professional development and maintain and improve their technical development. The program is offered almost entirely in the evening to serve students who are employed locally. The department offers the Ph.D. degree in cooperation with the University of Missouri-Rolla Physics Department. Students must satisfy the UM-Rolla admission standards, and the UM-Ro completed while the student is in residence at UM-St. Louis.

### Undergraduate Studies

**General Education Requirements** : Majors must complete the university and college general education requirements. Any of the following courses may be used to satisfy the physical science requirement:

**Astron: 1001, 1011, 1012, 1022, 1050, 1051, 1121**

**Atm Sc: 1001**

**Geol 1001, 1002, 1001A, 1002A**

**Physcs: 1001, 1011, 1012, 2111, 2112.**

### Degree Requirements

All physics majors, who are first-time freshman or transfer students, must complete Physics 1099, Windows on Physics. All physics majors in all programs must complete the physics core curriculum. In addition to the core courses, each individual program has its own specific requirements. Required Physics, Mathematics, Chemistry, Biology, Optometry and Computer Science courses for a major or minor in physics may not be taken on a satisfactory/unsatisfactory grading basis.

**Core Curriculum** The following physics courses are required:

**1099**, Windows on Physics

**2111**, Physics: Mechanics and Heat

**2112**, Physics: Electricity, Magnetism, and Optics

**3200**, Mathematical Methods of Theoretical Physics

**3221**, Mechanics

**3223**, Electricity and Magnetism

**3231**, Introduction to Modern Physics I

Also required are:

**Math 1800**, Analytic Geometry and Calculus I

**Math 1900**, Analytic Geometry and Calculus II

**Math 2000**, Analytic Geometry and Calculus III

**Math 2020**, Introduction to Differential Equations

**Chem 1111**, Introductory Chemistry I or equivalent

**Cmp Sc 1250**, Introduction to Computer Science

**Note** Students are urged to begin the calculus sequence [Math 1800, Analytic Geometry and Calculus I] as soon as possible to avoid delays in graduation.

Students with experience in digital computer programming may be excused from Computer Science 1250.

### Bachelor of Arts in Physics

The B.A. program is tailored to students wishing to preserve the option for specialization in graduate school

without sacrificing the advantages of a liberal arts education. In addition to the core curriculum, including the foreign language requirement, at least three electives at the 3000 or 4000 must be completed. At least 31 hours of physics courses, but no more than 45 hours, are required.

### **Bachelor of Science in Physics**

The B.S. degree provides students with five options: general physics, astrophysics, engineering physics, medical physics or optical biophysics.

#### **General Physics Option**

This option may be elected by students desiring a greater concentration in physics and mathematics and is recommended for students wishing to enter graduate study in physics. At least 49 hours but no more than 52, are required. **In addition to the core curriculum, the following physics courses are required:**

#### **Physics**

**4310**, Modern Electronics

**4311**, Advanced Physics Laboratory I

**4323**, Modern Optics

**4331**, Introduction to Quantum Mechanics

**4341**, Thermal and Statistical Physics

**and three electives** at the 4000 level in physics or astronomy.

#### **Astronomy**

**1050**, Introduction to Astronomy I **or 1051**, Introduction to Astronomy II

**Also required are :**

#### **Math**

**2450**, Elementary Linear Algebra

**4030**, Applied Mathematics I **or 4320**, Numerical Analysis I

**and one** elective in math at or above the 3000 level, or in computer science at or above the 2000 level.

#### **Chemistry**

**1121**, Introductory Chemistry II, or equivalent

**and one** elective in math or computer science at or above the 3000 level.

#### **Astrophysics Option**

This option may be elected by students who have interests in the aerospace sciences or anticipate graduate studies in astrophysics. At least 47 hours, but not more than 51, must be taken. **In addition to the core curriculum, the following physics courses are required:**

#### **Physics**

**4323**, Modern Optics

**4331**, Introduction to Quantum Mechanics

**4341**, Thermal and Statistical Physics

#### **Astronomy**

**1050**, Introduction to Astronomy I

**1051**, Introduction to Astronomy II

**4301**, Astrophysics

**4322**, Observational Astronomy

**And one physics electives** at the 4000 level. With consent of the astronomy adviser, there may be substitution of Astronomy 1001, 1011 or 1012 for 1050 or 1051.

**Also required are:**

#### **Math**

**2450**, Elementary Linear Algebra

**4030**, Applied Mathematics I **or 4230**, Numerical Analysis I

#### **Engineering Physics Option**

Students interested in careers in the research and development field of industry should consider this option. This program exposes the student to a basic engineering curriculum, as well as to areas of physics with industrial applications, such as electronics, modern optics, and linear analysis. At least 49 hours, but no more than 51, are required. In addition to the core curriculum, the following courses are required:

**Joint Engineering**

**2310**, Statics  
**2320**, Dynamics

**Joint Electrical Engineering**

**2300**, Introduction to Electrical Networks

**Physics**

**4310**, Modern Electronics  
**4311**, Advanced Physics Laboratory I  
**4323**, Modern Optics  
**4331**, Introduction to Quantum Mechanics  
**4341**, Thermal and Statistical Physics

**Math**

**1320**, Applied Statistics I  
**2450**, Elementary Linear Algebra

Also required are **one** elective in math at or above the 3000 level, or in a computer science at or above the 2000 level.

**Medical Physics Option**

This option is designed for students who are interested in careers in various medical fields or biophysics. This option provides a strong preparation in physics, mathematics, chemistry, and biology for students who intend to apply for admission to medical schools. At least 41 hours of physics and biology combined, but no more than 51, are required. In addition to the core curriculum, the following physics and biology courses are required:

**Physics**

**4310**, Modern Electronics  
**4347**, Biophysics of Imaging

**Biology**

**1811**, Introductory Biology I: From Molecules to Organisms  
**1821**, Introductory Biology II: Organisms and the Environment  
and **two additional physics electives** at the 4000 level.

Also required are:

**Chemistry**

**1121**, Introductory Chemistry II  
**2612**, Organic Chemistry I  
**2622**, Organic Chemistry II  
**2633**, Organic Chemistry Laboratory

**Note:** With approval of the chairperson of physics and astronomy, students with strong mathematical preparations who have already completed the Physics 1011 and Physics 1012 sequence in basic physics may substitute these courses for two required core courses Physics 2111 and Physics 2112, respectively. However, this is not the recommended route because Physics 2111 and 2112 give significantly better preparation for the required junior-level physics core courses. It would be the individual student's responsibility to make up any resulting deficiencies.

**Optical Biophysics Option**

This program is designed for students wanting to obtain a strong biophysics emphasis that will also prepare them for the optometry program at UM-St. Louis. This 3+4 program allows students to complete their B.S. in physics and Doctor of Optometry degrees in seven years. Students can complete their B.S. in physics degree in their fourth year while starting coursework in the College of Optometry. A total of 52 hours in physics, biology, and optometry courses are required. In addition to the physics core curriculum, the following courses are required:

**Physics**

**4341**, Thermal and Statistical Physics

**Biology**

**1811**, Introduction to Biology I: From Molecules to Organisms  
**1821**, Introduction to Biology II: Organisms and the Environment  
**2482**, Microbiology

**2483, Microbiology Laboratory****Optometry** (fourth year only)**8020, Geometric Optics****8060, Biochemistry****8120, Ocular Optics****8130, Physiological Optics Lab****8150, Physical Optics and Photometry Lab**

Also required are:

**Chemistry****1121, Introductory Chemistry II****2612, Organic Chemistry I****2622, Organic Chemistry II****2633, Organic Chemistry Laboratory****Psychology****1003, General Psychology and one elective** in psychology**Statistics,****Math 1320, Applied Statistics I or Psych 2201, Psychological Statistics**

**Note:** Upon declaring physics as a major and selecting this option, students should seek an initial interview with the Director of Student Affairs and the Pre-Optometry Advisor in the UM-St. Louis College of Optometry to ensure that all prerequisites for the College of Optometry will be completed. A similar review is recommended at the beginning of the Winter Semester of the second year. In August following the completion of their second year of this program, students may apply formally to the UM-St. Louis College of Optometry and arrange to take the Optometry Admissions Test (OAT) in October of their third year. The applicant will be invited for a formal interview for acceptance into the College of Optometry professional program following receipt of a completed application in the Fall Semester of the candidate's third year. Following the formal interview with the College of Optometry at the beginning of the third year, students with a 3.0 or better grade point average in the science prerequisites for optometry and a score of 310 or better on the OAT exam may be accepted into the College of Optometry.

**B.S. degree in Secondary Education with an Emphasis in Physics.**

All candidates must enroll in a program that includes Levels I, II, and III coursework in the College of Education. In addition, students must complete the following Science Core Courses and the courses listed under Physics Endorsement:

**Science Core Courses:****Philosophy****3380, Philosophy of Science****Biology****1811, Introductory Biology I: From Molecules to Organisms****1821, Introductory Biology II: Organisms and the Environment****Chemistry****1111, Introductory Chemistry I****1121, Introductory Chemistry II****Geol 1001, General Geology****Atm Sc 1001, Elementary Meteorology****Biol 1202, Environmental Biology or another environmental science****Physics****2111, Physics: Mechanics and Heat****2112, Physics: Electricity, Magnetism, and Optics****Physics Endorsement****Physics****3200, Mathematical Methods of Theoretical Physics****3221, Mechanics****3223, Electricity and Magnetism****3231, Introduction to Modern Physics**

**4310**, Modern Electronics

**4311**, Advanced Physics Laboratory I

**4802**, or Sec Ed 3240, Methods of Teaching Science in Secondary Schools

**4837**, Teaching Intern Seminar

### Minor in Physics

Students may complete a minor in physics with the flexibility of emphasis on classical physics, modern physics, or a combination of the two areas. The following physics courses are required:

**2111**, Mechanics and Heat

**2112**, Electricity, Magnetism, and Optics

**3200**, Mathematical Methods of Theoretical Physics

and two additional emphasis courses chosen from the following physics courses:

**3221**, Mechanics

**3223**, Electricity and Magnetism

**3231**, Introduction to Modern Physics I

**4310**, Modern Electronics

A GPA of at least 2.0 is required in courses presented for a minor. It is required that a student completes a minimum of 6 hours of graded work in 2000 level or above courses on the UM-St. Louis campus.

### Graduate Studies

#### Admission Requirements

The Department requires applicants to have adequate backgrounds in such areas as mechanics, thermodynamics, electromagnetism, optics, electronics, and modern physics. Students admitted to the program with deficiencies in these areas are required to take appropriate undergraduate courses. If necessary, a remedial program is determined in consultation with the department graduate studies director at the time of application for admission.

#### Graduate Degree Requirements

##### Master's

A student must complete 30 credit hours in graduate physics courses with at least 15 of these at the 5000 or 6000 level. The writing of a thesis is optional. A maximum of 6 (3) credit hours of Research, P6490 may be counted toward the minimum 15 hours with (without) the thesis option.. A comprehensive examination must be passed, which includes a defense of the thesis if the student has chosen to write one. A grade point average of 3.0 must be maintained during each academic year. The requirements must be fulfilled within six years from the time of admission. Two-thirds of required graduate credit must be taken in residence. No language requirement.

##### Doctorate

A minimum of 48 hours past the master's degree with satisfactory performance. Residency requirement of three years/six semesters (for those with master's degree, two years/four semesters) at UM-St. Louis and/or cooperating UM-Rolla campus. Ph.D. qualifying exam, dissertation, dissertation exam administered in cooperation with UM-Rolla. Overall requirement of B grades or better. Dissertation may be written in absentia. No language requirement.

#### Special Equipment, Facilities, or Programs

The *William L. Clay Center for NanoSciences*, which opened in 1996, is a facility bringing together both physicists and chemists for research in materials science. A focus of the Center is to foster collaborations between its members and colleagues in industry. The Center houses the Microscope Image and Spectroscopy Tech Lab where research at the forefront of nanotechnology is conducted with transmission electron, scanning probe, and scanning electron microscopes in a building uniquely designed for such work. The Center is spearheading the formation of the Missouri NanoAlliance, a nano-characterization and synthesis network that will facilitate the sharing of resources across Missouri. The *Center for Neurodynamics*, established in 1995, conducts research at the interface between physics and biology, with a focus on the roles of noise and stochastic synchronization in neural processing. The Center has an on-site high speed (CCD) imaging system for studying the spatial dynamics of neural activity in the mammalian brain. Collaborations with St. Louis University will permit high time-resolution magnetoencephalography (MEG) image analysis, making use of a high-speed Internet 2 connection, UMSL's new high-speed (3.8 GHz) 128-node Beowulf cluster, and Missouri's first MEG machine. Astronomers make use of national facilities at Kitt Peak, Cerro Tololo, and Mauna Kea Observatories. The Department maintains both machine and electronic shops. The University provides email and internet services through numerous student labs equipped with computers with Windows and MacIntosh operating systems, flat-bed document scanners, and color printers. The Department maintains a network of UNIX/LINUX/OSX system and workstations. The department maintains a workstation for image processing.

The department operates a machine shop and an electronics shop. In addition, the department maintains a library containing some of the most frequently used physics journals.

### Typical Program:

#### First Semester

Physics: 6000 level and 4000, 5000 level course  
Total: 6 hours

#### Second Semester

Physics: 6000 level and 4000, 5000 level course  
Total: 6 hours

#### Third Semester

Physics: 6000 level and 4000, 5000 level course  
Physics 6490, Thesis Research or Seminar  
Total: 9 hours

#### Fourth Semester

Physics: 6000 level and 4000 level course  
Physics 6490 Thesis Research or Seminar  
Total: 9 hours

### Career Outlook

Many of our students have been successful in subsequent graduate studies in astronomy and atmospheric science, biomedical engineering, medical physics, and patent law, as well as in physics. Our alumni have pursued graduate studies and earned doctorate degrees at institutions such as Cornell University, University of Wisconsin, Washington University, and University of Chicago. The many students who elected a career in industry are now working in a variety of settings for such firms as International Business Machines, Emerson Electric, MEMC Electronic Materials Motorola, Southwestern Bell, Hewlett-Packard, Boeing, and the National Center for Atmospheric Research. Several former students are currently teaching physics in high schools around the St. Louis area.

### Course Descriptions

Prerequisites may be waived by consent of the department. Courses in this section are grouped as follows: Astronomy; Atmospheric Science; Geology; and Physics.

Students who have earned 24 or more semester hours of credit at any accredited post-secondary institutions(s) before the start of the fall 2002 semester must meet the general education requirements stipulated in the UM-St Louis 2001-2002 Bulletin. The following courses fulfill the Natural Sciences and Mathematics breadth of study requirements as described in that Bulletin:

ASTRON: 1001, 1011, 1012, 1022, 1050, 1051, 1121.

ATM SC: 1001.

GEOL: 1001, 1002, 1001A, 1002A.

PHYSICS: 1001, 1011, 1012, 2111, 2112.

### Astronomy

#### 1001 Cosmic Evolution/Introductory Astronomy (4) [MI, MS]

Planets: A brief survey of their motions and properties. Stars: Observations, including stellar spectra and colors; stellar evolution, and star clusters. Galaxies: Structure and content of the Milky Way Galaxy, its relationship to other galaxies. Cosmology: The origin and evolution of the universe. Three classroom hours and two multimedia laboratories.

#### 1011 Planets and Life in the Universe (3) [MS]

Man's concept of the solar system from Stonehenge to Einstein; geology and meteorology of the planets of our solar system, with particular attention to results from the space program; exobiology-study of the possibilities of life on other worlds and the best method of communicating with it. Three classroom hours per week.

#### 1012 The Violent Universe and the New Astronomy (3) [MS]

A nontechnical course focusing on recent results which larger telescopes and the space program have made available. Pulsars, x-ray stars, and black holes; radio astronomy, our galaxy, and interstellar molecules; exploding galaxies and quasars; origin of the expanding universe. Three classroom hours and one observing session per week.

#### 1022 Practical Astronomy (2) [MS]

Prerequisite: Astron 1001 or 1011. Designed to acquaint students with observational astronomy: constellations, planets, stars, nebulae, and galaxies. Students will become familiar with operation of a

telescope and its use in visual observation and photography. The basics of astronomical nomenclature and coordinates will also be emphasized. This course is primarily for nonscientists.

**1050 Introduction to Astronomy I (3) [MS]**

Prerequisites: Math 1030 and 1035. A survey of the history of astronomy from the ancient times to present. Theories for the formation and evolution of the solar system and the general features of the solar system and planetary motions are discussed. The physical concept of gravity is presented. The detailed properties of the planets, comets, and asteroids are reviewed, concentrating on recent results from space missions.

**1051 Introduction to Astronomy II (3) [MS]**

Prerequisites: Math 1030 and 1035. A survey of astronomy beyond the solar system. Topics include stars and stellar evolution, neutron stars, and black holes. The physical concept of light and the design of telescopes is discussed in detail. The structure of the Milky Way Galaxy and the large scale structure of the universe are explored. Dark matter, quasars, and active galactic nuclei are discussed in the context of theories for the formation and evolution of the universe. Course does not need to be taken in sequence with Astronomy 1050.

**1121 The Search for Extraterrestrial Life (3) [MS]**

Prerequisite: Astron 1001 or 1011. Are we alone? The possibility of life in the universe in addition to our own will be explored. Our discussion of the chances for extraterrestrial life will be built around the current theories of chemical, biological, and cultural evolution, which have led to our own technological civilization on Earth. Strategies for communication with extraterrestrial intelligence will be discussed.

**4301 Astrophysics (3)**

Prerequisite: Physcs 3231 or consent of instructor. A moderately technical introduction to astrophysics. Topics will include: physics of stellar interiors and atmospheres; interpretation of stellar spectra; stellar evolution; radio astronomy; and cosmology.

**4322 Observational Astronomy (4)**

Prerequisites: Astron 1050, Astron 1051, and Math 2000 or consent of instructor. Tools of the astronomer: telescopes, spectroscopy, photoelectric photometry. Students will work on a number of projects which will enable them to develop expertise in obtaining, reducing, and analyzing astronomical observations. Student night observing will be an important part of the course. This course is primarily for persons who are astronomy or physics majors or who have some equivalent astronomical background.

**Atmospheric Science****1001 Elementary Meteorology (4) [MS,MI]**

Prerequisite: Math 1020 or equivalent. An elementary course covering atmospheric phenomena, weather, and climate. Topics included are temperature, pressure, and moisture distributions in the atmosphere and dynamical effects such as radiation, stability, storms, and general circulation. Four classroom hours per week with one hour being a learning enhancement session to include demonstrations and exercises on problem solving.

**Geology****1001 General Geology (4) [MI,MS]**

Earth materials and processes, including geological aspects of the resource/energy problem. Laboratory involves identification of common rocks and minerals.

**1001A General Geology (3)**

Earth materials and processes, including geological aspects of the resource/energy problem. Same as Geology 1001 without the laboratory.

**1002 Historical Geology (4) [MI,MS]**

Prerequisite: Geol 1001. Study of changes in geography, climate and life through geological time; origin of continents, ocean basins, and mountains in light of continental drift. Laboratory primarily involves description and identification of fossils.

**1002A Geology (3)**

Study of changes in geography, climate and life through geological time; origin of continents, ocean basins, and mountains in light of continental drift. Same as Geol 1002 without the laboratory.

**1053 Oceanography (3)**

The atmospheric and ocean circulations; the chemistry and geology of the deep sea; and their effects on the distribution of marine organisms.

**Physics**

**1001 How Things Work (3) [MS]**

Provides a practical introduction to understanding common life experiences by using physical intuition and basic ideas of physics. Powerful scientific principles are demonstrated through topics ranging from airplane wings to compact disk players, from lightning strikes to lasers.

**1011 Basic Physics I (4) [MI,MS]**

Prerequisite: Math 1800 or 1100 may be taken concurrently. A course specifically designed for students in health and life sciences, covering the topics of classical mechanics, heat and sound. Will not fulfill the Physics 2111 requirement for physics, chemistry, and engineering majors. Three classroom hours and two hours of laboratory per week.

**1012 Basic Physics II (4) [MI,MS]**

Prerequisite: Physcs 1011. A continuation of Physcs 1011. A course specifically designed for students in health and life sciences covering the topics of electricity, magnetism, light and radiation. Will not fulfill the Physics 2112 requirement for physics, chemistry, and engineering majors. Three classroom hours and two hours of laboratory per week.

**1050 Introduction to Physics (4)**

Prerequisite: Math 1030. A laboratory survey course which introduces students to the fields of mechanics, heat and thermodynamics, optics, electricity and magnetism, and modern physics at the pre-calculus level. A problem-solving course, recommended for science and engineering students who have no physics background or who desire additional preparation for Physcs 2111. Three classroom hours and two hours of laboratory per week.

**1099 Windows on Physics (1)**

A seminar designed to introduce physics majors to research areas in physics and physics-related fields in the Department of Physics & Astronomy. In addition to fundamental areas of physics, the areas of astrophysics, biophysics, materials science, and nanotechnology will be included. Career opportunities for students with physics degrees will be discussed and the physics curriculum will be reviewed. The course meets weekly and is required of all physics majors and minors who are first-time freshmen or transfer students.

**2111 Physics: Mechanics and Heat (5) [MS,MI]**

Prerequisite: Math 1900 (Math 1900 may be taken concurrently). Physcs 1001, or Chem 1121, or equivalent is recommended. An introduction to the phenomena, concepts, and laws of mechanics and heat for physics majors and students in other departments. Three classroom hours, one hour discussion, and two hours of laboratory per week.

**2112 Physics: Electricity, Magnetism, and Optics (5) [MI,MS]**

Prerequisites: Physcs 2111 and Math 2000 may be taken concurrently. A phenomenological introduction to the concepts and laws of electricity and magnetism, electromagnetic waves, optics and electrical circuits for physics majors and students in other departments. Three classroom hours, one hour discussion, and two hours of laboratory per week.

**3200 Mathematical Methods of Theoretical Physics (3)**

Prerequisites: Physcs 2112 and Math 2000. Mathematical techniques specifically used in the study of mechanics, electricity, magnetism, and quantum physics are developed in the context of various physical problems. Course includes the topics of vector calculus, coordinate systems, the Laplace equation and its solutions, elementary Fourier analysis, and complex variables. Applications to electrostatics, mechanics, and fluid dynamics are emphasized. Three classroom hours per week.

**3221 Mechanics (3)**

Prerequisites: Physcs 3200 and Math 2020. Math 2020 may be taken concurrently. Advanced course covering single and many particle dynamics, rigid-body dynamics, and oscillations. Variational principles and the Lagrangian and Hamiltonian formulations of mechanics are covered. Three classroom hours per week.

**3223 Electricity and Magnetism (3)**

Prerequisites: Physcs 3200 and Math 2020. Math 2020 may be taken concurrently. Advanced course covering the rigorous development, from basic laws, of Maxwell's equations for electromagnetic fields along with applications of these equations. Topics covered are electrostatics and electrodynamics including currents, magnetic fields, motion of charged particles in fields and an introduction to electromagnetic waves. Three classroom hours per week.

**3231 Introduction to Modern Physics I (3)**

Prerequisite: Physcs 2111, 2112, and Math 2020 may be taken concurrently and Physcs 3200 strongly recommended. Photons and the wave nature of particles, wave mechanics, Schrödinger equation, with applications to atomic physics; and radiation; the physics of solids; elementary particles; special relativity; health physics. Three classroom hours per week.

**3281 Directed Readings in Physics (1-5)**

Prerequisite: Consent of instructor. An independent study of special topics in physics. A paper may be required on an approved topic. Topics must be substantially different. Hours arranged.

**3390 Research (1-10)**

Prerequisite: Consent of department. Independent research projects arranged between student and instructor. Hours arranged.

**3410 Seminar (1)**

Presentation of selected papers by students and faculty members at weekly meeting. May be taken twice for credit.

**4306 Emergent Microscopy Practicals (1-3)**

Prerequisite: of 3 credit hours) A critical web-based/laboratory Consent of Instructor (1.0 credit hour per module with a maximum study of developing nanoworld microscopy techniques, designed for microscopy clients and future microscope operators. The course consist of larger set to include (a) electron microscopy, (b) materials microscopy, (c) scanned-probe microscopy, with each module covering instrumentation, wide ranging uses, and weaknesses to avoid. Each module requires two lab visits for hands-on experiences, and three sessions of structured web and e-mail interaction per week.

**4307 Scanning Electron Microscopy (3)**

Prerequisite: Consent of instructor. A lecture/laboratory study of scientific research techniques using scanning electron microscopy (SEM). Course includes electron gun/lens optics,, beam-specimen interactions, image formation, associated x-ray techniques, and analysis of images. Two classroom hours and two hours laboratory each week.

**4308 Transmission Electron Microscopy (3)**

Prerequisite: Physcs 4307 or consent of instructor. A lecture/laboratory study of transmission electron microscopy (TEM) in conventional, analytical, and phase-contrast (high resolution) applications. Course includes advanced electron optics and image formation, defect structures, specimen preparation, contrast theory, diffraction/periodicity analysis, and electron energy loss/x-ray spectroscopy. Two classroom hours and two hours laboratory per week.

**4309 Scanning Probe Microscopy (3)**

Prerequisite: Physcs 4307 or consent of instructor. A lecture/laboratory study of research techniques using scanning probe microscopy. Topics include atomic force microscopy, scanning tunneling microscopy, feedback control, scanning tip fabrication, scan calibrations, air/solution/vacuum imaging, image processing and analysis, near-field optical probes, metrology, and lateral force/displacement microscopy. Applications in physics, chemistry, biology, engineering, and surface science are discussed. Two classroom hours and two hours laboratory per week.

**4310 Modern Electronics (3)**

An integrated recitation/laboratory study of modern analog and digital electronics with emphasis on integrated circuits. Topics include circuit elements, operational amplifiers, logic gates, counters, adc/dac converters, noise reduction, microprocessors, embedded microcontrollers, and digital processing. Six hours of laboratory per week.

**4311 Advanced Physics Laboratory I (3)**

Prerequisites: Advanced standing with at least nine completed hours of physics at or above the 3000 level. Physics majors are introduced to the experimental techniques used in research. A student will choose and do several special problems during the semester. Six hours of laboratory per week.

**4323 Modern Optics (3)**

Prerequisite: Physcs 3223. A study of modern optics including diffraction theory, polarization, light propagation in solids, quantum optics, and coherence. Three classroom hours per week.

**4325 Topics in Modern Applied Physics (3)**

Prerequisites: Physcs 4310 and Math 2020. Topics are taken from modern applications of physics which may include linear analysis, nonlinear analysis, Fourier transform spectroscopy, wavelet analysis, noise and fluctuation phenomena, material science, physical electronics, optical techniques, and scanning tip microscopy. Three classroom hours per week.

**4331 Introduction to Quantum Mechanics (3)**

Prerequisites: Physcs 3200 and 3231. Photons and the wave nature of particles; wave mechanics, the Schrodinger equation, operator and matrix formulations, and Dirac notation; applications to single particle systems, atomic physics, and spectroscopy. Three classroom hours per week.

**4335 Atomic and Nuclear Physics (3)**

Prerequisite: Physcs 4331. Application of Schrödinger's equation to hydrogen-like atoms; atomic structure and spectra; nuclear masses, energy levels; alpha, beta, and gamma radiation, nuclear reactions, and models of the nucleus. Three classroom hours per week.

**4341 Thermal and Statistical Physics (3)**

Prerequisites: Math 2000 and Physcs 3231. Introduction to statistical mechanics, classical thermodynamics and kinetic theory. Three classroom hours per week.

**4343 Selected Topics in Physics I (3)**

Prerequisites: Physcs 3221, 3223, 3231, and 4341. Topics include special phenomena from research areas such as scattering of waves, biophysics, nonlinear physics, geophysical fluid dynamics and the atmospheric sciences treated by methods of advanced mechanics, thermodynamics and quantum mechanics. Three classroom hours per week.

**4347 Biophysics of Imaging (4)**

Prerequisites: Physcs 3231, Biol 1811, Biol 1821. An introduction to the application of physical principles to problems in medical physics and biology, with a particular focus on the biophysics of various technologies for imaging both human patients and biological macromolecules. Topics covered will include the principles of X-ray crystallography, metabolic and optical changes in the brain, NMR and fMRI, magnetoencephalography, PET imaging, the electrophysiology of EEG and ECG, dynamics in the body and brain, and dynamics in genetics. Laboratory projects on brain imaging and data analysis are an integral part of the course. Three classroom hours and two laboratory hours per week.

**4350 Computational Physics (3)**

Prerequisite: Cmp Sc 1250, plus Physcs 3221, 3223, and 3231. Computer analysis in physics; solutions of eigenvalue problems; coupled differential equations. Three classroom hours per week.

**4351 Elementary Solid State Physics (3)**

Prerequisite: Physcs 4331. Theoretical and experimental aspects of solid state physics, including one-dimensional band theory of solids; electron emission from metals and semiconductors; electrical and thermal conductivity of solids. Three classroom hours per week.

**4353 Physics of Fluids (3)**

Prerequisites: Physcs 3221, 3223, and 4341, or consent of instructor. Dynamical theory of gases and liquids. Course covers the mathematical development of physical fluid dynamics with contemporary applications. Three classroom hours per week.

**4354 Atmospheric Physics (3)**

Prerequisite: Physcs 4341 and 3221. The mathematical application of physical laws to atmospheric dynamics and physical meteorology. Application of mechanics, thermodynamics, optics, and radiation to atmospheric phenomena including the ionosphere. Three classroom hours per week.

**4356 Quantum Optics (3)**

Prerequisites: Physcs 3200 and 3231, and Math 2020. Review of atomic theory and spectroscopy. Selected applications to modern optical phenomena such as optical pumping, lasers, masers, Mossbauer effect, and holography. Three classroom hours per week.

**4357 Subatomic Physics (3)**

Prerequisites: Physcs 3223, 3231 and 4331, may be taken concurrently. Introduction to nuclear and particle physics. Nuclear phenomenology and models; high energy particle accelerators and detectors; phenomenology of strong, electromagnetic and weak interactions; symmetry principles; quark compositions of strongly interacting baryons and mesons; gauge theories and the standard model of particle interactions; grand unification. Three classroom hours per week.

**4365 Introduction to Plasma Physics (3)**

Prerequisite: Physcs 3223 and 4341. A study of the nonlinear collective interactions of ions, electrons, and neutral molecules with each other and with electric and magnetic fields. Topics include plasma confinement and stability, electrical discharges and ionization, kinetic theory of plasma transport, plasma waves and radiation, and controlled fusion. Solutions of the Boltzmann, Fokker-Planck, and Vlasov equations are discussed and methods of advanced electromagnetism and statistical physics are utilized. Three classroom hours per week.

**4370 Relativity and Cosmology (3)**

Prerequisites: Physcs 3221, 3223, and 3231. An introduction to Einstein's general theory of relativity. Topics will include special relativity in the formalism of Minkowski's four dimensional space-time, Principle of Equivalence, Riemannian geometry and tensor analysis, Einstein Field Equation and cosmology. Three classroom hours per week.

**4381 Directed Readings in Physics (1-10)**

Prerequisite: Consent of instructor. An independent study of special topics in physics for senior undergraduates or graduate students.

**4387 Chemistry/Physics Teaching Intern Seminar (1)**

Same as Chem 4837. Prerequisite: Chem 4802 or Physcs 4802. A seminar to accompany student teaching covering integration of physical science curricula and methods into the classroom setting. To be taken concurrently with Secondary Student Teaching, Sec Ed 3290 One hour discussion per week.

**4802 Curriculum and Methods of Teaching Physical Sciences (3)**

Prerequisite: Tch Ed 3310 and a near-major in the subject matter. A study of the scope and sequence of the physical science courses in the school curriculum, with emphasis on the selection and organization of materials and methods of instruction and evaluation. Attention is also directed toward learning the techniques and research tools of the scholar in the field of science. To be taken prior to student teaching. This course must be completed in residence.

**5345 Nonlinear Dynamics and Stochastic Processes (3)**

Prerequisites: Physcs 3221 and 4341 and Consent of Instructor. Dynamical systems; theory of oscillations; introduction to bifurcation theory and chaos in dissipative systems with applications in physics and biology; introduction to stochastic processes with applications in physics, chemistry and biology; dynamics of nonlinear systems perturbed by noise; noise-induced phase transitions; linear and nonlinear time series analysis. Three classroom hours per week.

**5402 Introduction to Mathematical Physics (3)**

Prerequisites: Graduate standing in Physics or consent of instructor. A course covering mathematical techniques as applied in advanced theoretical physics including generalized vector spaces and their dual spaces, linear operators and functionals, generalized functions, spectral decomposition of operators, tensor analysis, and complex variables. Three classroom hours per week.

**5403 Principles of Mathematical Physics (3)**

Graduate standing in physics or consent of instructor. Boundary value problems; Sturm-Liouville theory and orthogonal functions; Green's function techniques; and introduction to group theory with emphasis on representations of Lie Algebras. Three classroom hours per week.

**6400 Special Problems (1-5)**

Prerequisites: Must have a faculty mentor and approval of the Department Chair. A study of special topics in physics for graduate students.

**6401 Special Topics (1-4)**

Prerequisite: Consent of instructor. This course is designed to give the Department an opportunity to test a new course.

**6404 Experimental Research Techniques (3)**

Prerequisite: Graduate standing. Experiments in various fields of physics designed to stress techniques and experimental approach.

**6405 Theoretical Physics I (3)**

Prerequisites: Physcs 3221 and 3223 or equivalent. Newton's laws applied to simple systems, central force problem, variational principles. Lagrangian and Hamiltonian formulations, electrostatics. Maxwell field operations, wave propagation.

**6406 Theoretical Physics II (3)**

Prerequisites: Physcs 3231, 4341, or equivalent, and Physics 6405. Schroedinger equation and wave mechanical treatment of simple systems; perturbation theory; identical particles and spin. Laws of thermodynamics, canonical systems; thermodynamic potentials and Maxwell equations, open systems, and chemical potential. Clausius-Clapeyron equation.

**6407 Modern Physics (3)**

Prerequisite: Physcs 4331. A study of some of the more important concepts of modern physics.

**6409 Theoretical Mechanics I (3)**

Prerequisite: Physcs 3221. Classical mechanics, methods of Newton, Lagrange, and Hamilton, applied to motion of particles and rigid bodies, elasticity, and hydrodynamics.

**6410 Seminar (variable hours)**

Prerequisite: Approval of department chair. Discussion of current topics.

**6411 Electrodynamics I (3)**

Prerequisite: Physcs 3223. A rigorous development of the fundamentals of electromagnetic fields and waves.

Electrostatics, magnetostatics, Maxwell's equations, Green's functions, boundary value problems, multipoles, and conservation laws.

**6413 Statistical Mechanics (3)**

Prerequisites: Physcs 4331 and 4341. A study of statistical ensembles; Maxwell-Boltzmann, Fermi-Dirac, and Einstein-Bose distribution laws, application to some simple physical systems.

**6415 Theoretical Mechanics II (3)**

Prerequisite: Physcs 6409. Transformation theory of mechanics, Lagrange and Poisson brackets, Hamilton-Jacobi theory, introduction to the classical theory of fields.

**6417 Advanced Statistical Mechanics (3)**

Prerequisite: Physcs 6413. A continuation of Physcs 6413. Further applications as to such topics as the imperfect gas, condensation and the critical region, magnetism, liquid state, and transport phenomena.

**6423 Electrodynamics II (3)**

Prerequisite: Physcs 6411. A continuation of Physcs 6411. Applications of time-dependent Maxwell's equations to such topics as plasmas, wave guides, cavities, radiation: fields of simple systems and multipoles. Relativity: covariant formulation of Maxwell's equations and conservation laws, fields of uniformly moving and accelerated charges.

**6425 Plasma Physics (3)**

Prerequisites: Physcs 4341 and 6411. Fundamentals of kinetic theory, fluid equations, MHD equations, and applications; wave propagation, shielding effect, diffusion stability, and charged particle trajectories.

**6435 Cloud Physics (3)**

Prerequisites: Physcs 3223 and 4341. A study of cloud microphysics and dynamics, atmospheric condensation and freezing nuclei, phase, precipitation mechanisms, aerosol scavenging, role of electrification, current dynamical models, and review of diagnostic techniques.

**6455 Theoretical Nuclear Physics (3)**

Prerequisite: Physcs 6461. A study of the basic properties of nuclei, nuclear scattering and forces, nuclear reactions, and models.

**6461 Quantum Mechanics I (3)**

Prerequisite: Physcs 4331. A study of the Schrödinger wave equation, operators and matrices, perturbation theory, collision, and scattering problems.

**6463 Quantum Mechanics II (3)**

Prerequisite: Physcs 6461. Continuation of Physcs 6461 to include such topics as Pauli spin-operator theory, classification of atomic states, introduction to field quantization. Dirac electron theory.

**6465 Quantum Mechanics III (3)**

Prerequisites: Physcs 6461 and 6463. Topics chosen from such fields as: relativistic quantum mechanics, potential scattering, formal collision theory, group theoretical methods in quantum mechanics, electrodynamics.

**6467 Quantum Statistical Mechanics (3)**

Prerequisites: Physcs 6413 and 6463. Techniques for calculation of the partition function with examples drawn from interacting Fermi gas, interacting Bose gas, superconductors, and similar sources.

**6471 Atomic and Molecular Structure (3)**

Prerequisite: Physcs 6461. Applications of quantum mechanics to the structure of atoms and molecules; perturbation and variational calculations, self-consistent fields, multiplets, angular momenta, Thomas-Fermi model, diatomic molecules, spectral intensities.

**6473 Atomic Collision Theory (3)**

Prerequisite: Physcs 6471 or 6463. Basic quantum mechanical concepts involved in atomic scattering theory. Topics include: elastic and inelastic collisions of electrons and ions with neutral atoms and molecules; collisions between heavy particles; curve crossing; photo-processes; and Coulomb wave functions.

**6475 Molecular Spectroscopy (3)**

Prerequisite: Physcs 6461. Introduction to classical and quantum treatment of the vibrational and rotational structure and spectra of diatomic, linear triatomic, and simple polyatomic molecules: vibrational-rotational interactions, point group symmetry in simple infrared spectra analysis, calculations of vibrational frequencies, and normal coordinates of polyatomic atoms.

**6481 Physics of the Solid State (3)**

Prerequisite: Physcs 6461. Crystal symmetry, point and space groups, lattice vibrations, phonons, one-electron

model, Hartree-Fock approximation, elementary energy band theory transport properties, the Boltzmann equation, introduction to superconductivity, semiconductors, and magnetism.

**6483 Selected Topics of the Solid State (3)**

Prerequisite: Physcs 6481. Introduction to many- body perturbation theory, the use of Feynman diagrams. Green's functions, treatment of the electron-electron, phonon-phonon, and electron-phonon interactions, theory of magnetism, and theory of superconductivity

**6485 Advanced Quantum Mechanics (3)**

Prerequisite: Physcs 6465. Selected topics such as many-body problems field theory, S matrix theory and symmetries.

**6490 Research (variable hours)**

Prerequisites: Must have a faculty mentor and approval of the Department Chair. Investigations of an advanced nature leading to the preparation of a thesis or dissertation.

**6493 Oral Examination**

After completion of all other program requirements, oral examinations for on campus students may be processed during the first two weeks of an academic session or at any appropriate time for off-campus students upon enrollment in Physcs 6493 and payment of an oral examination fee. All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three semester hours for resident students.

**6495 Continuous Registration**

Doctoral candidates who have completed all requirements for the degree except the dissertation, and are away from the campus, must continue to enroll for at least one hour of credit each registration period until the degree is completed. Failure to do so may invalidate the candidacy. Billing will be automatic as will registration upon payment.

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# BULLETIN 2007

University of Missouri - St. Louis 2008

## Department of Political Science

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#### Faculty

**G. Eduardo Silva**, Professor, Chairperson  
Ph.D., University of California-San Diego

**E. Terrence Jones**, Professor  
Ph.D., Georgetown University

**Dennis R. Judd**, Professor Emeritus  
Ph.D., University of Illinois

**Carol W. Kohfeld**, Professor Emerita  
Ph.D., Washington University

**Joyce M. Mushaben**, Professor  
Ph.D., Indiana University

**David B. Robertson**, Professor  
Ph.D., Indiana University

**J. Martin Rochester**, Distinguished Teaching Professor  
Ph.D., Syracuse University

**Lyman Tower Sargent**, Professor Emeritus  
Ph.D., University of Minnesota

**J. Fred Springer**, Professor Emeritus  
Ph.D., University of California-Davis

**Lana Stein**, Professor  
Ph.D., Michigan State University

**Brady Baybeck**, Associate Professor, Director Public Policy Administration  
Ph.D., Washington University

**Andrew Glassberg**, Associate Professor  
Ph.D., Yale University

**Joel N. Glassman**, Associate Professor, Director, Center for International Studies, Associate Vice Provost for Academic Affairs  
Ph.D., University of Michigan

**Barbara L. Graham**, Associate Professor, Graduate Director  
Ph.D., Washington University

**Jean-Germain Gros**, Associate Professor  
Ph.D., University of California-Berkeley

**Ruth Iyob**, Associate Professor  
Ph.D., University of California-Santa Barbara

**David C. Kimball**, Associate Professor  
Ph.D., Ohio State University

**Nancy T. Kinney**, Associate Professor  
Ph.D., University of Colorado at Denver

**Kenneth P. Thomas**, Associate Professor  
Ph.D., University of Chicago

**Brian Fogarty**, Assistant Professor  
Ph.D., University of North Carolina at Chapel Hill

**Farida Jalalzai**, Assistant Professor  
Ph.D., University of Buffalo

**Richard Middleton IV**, Assistant Professor  
Ph.D., University of Missouri-Columbia

Political Science faculty are nationally known scholars in their respective fields, dedicated to high-quality teaching and education. Department faculty members have received distinctions such as the Presidential Award for Research and Creativity, Chancellor's Award for Research and Creativity, Chancellor's Award for Excellence in Teaching, Governor's Teaching Awards, Burlington Northern Faculty Achievement Award, and

Emerson Electric Excellence in Teaching Award. They have received research grants from such prestigious agencies as the John F. Kennedy Library, the Ford Foundation, the MacArthur Foundation, the National Science Foundation, the German Marshall Fund, the United States Department of Education, the Fulbright Program, and the United States Institute for Peace. The faculty has published its research in more than 80 books and 400 articles in scholarly journals and is devoted to using its research findings to improve teaching.

In 1987, the Department of Political Science was designated as a Center of Eminence by the Board of Curators. This makes political science one of only two such programs on the St. Louis campus and ten in the entire University of Missouri system to be so designated. The department was selected because of its excellence in research and teaching.

In addition to helping students become more knowledgeable about politics and public policy, political science course work provides rich opportunities for students to develop a variety of practical skills--such as information-gathering and processing, analysis, research, decision making and oral and written communication--that are transferable to many career paths and job settings after graduation.

## **General Information**

### **Degrees and Areas of Concentration**

The political science department offers undergraduate work leading to the B.A. degree in political science, B.S. degree in public policy and administration, and, in cooperation with the College of Education, the B.A. in political science with teacher certification and the B.S. in education with an emphasis in social studies. (See College of Education section in this *Bulletin* for details.) Minors in political science are available to students who are majoring in another discipline and who have a special interest in law, government, politics, and public policy.

Principal areas of concentration include urban politics, American political processes and behavior, international politics, comparative politics, public policy and administration, public law, and political theory. In many courses, emphasis is placed on the ways in which public policies are developed and administered. In addition to formal course work, internships are available in which the student can relate classroom learning to practical field experience.

The political science department also offers graduate courses leading to the M.A. and Ph.D. in political science. The M.A. program in political science offers advanced education for those seeking careers in government, business, secondary education, community, or not-for-profit agencies. The principal foci of the 33-hour program are public administration and public policy analysis/evaluation in the local, state, national, and international areas. The flexibility of the general master's degree allows for individualized programs in urban politics, prelegal education, American national government, comparative politics, international relations, and political theory.

The Ph.D. in political science emphasizes the study of theoretic, analytic, and substantive approaches to public policy. Core courses include research methods, normative and empirical theory, and policy processes and institutions. Doctoral candidates, in consultation with the faculty, develop a policy concentration, which can be interdisciplinary. Internships, when appropriate, may be a component. All successful doctoral candidates must complete a dissertation, which makes a significant contribution to knowledge in the field.

Most graduate classes are scheduled so those employed outside the university can participate in the programs on a part-time basis. Financial assistance is available to full-time students.

### **Special Interdisciplinary Degree**

The Department of Political Science also cooperates with the Department of Economics in the College of Arts and Sciences and the College of Business Administration in offering a master's degree in public policy administration (MPPA). For information on the MPPA degree program, see that section in this *Bulletin*.

### **Cooperative Programs**

Political science students may also study overseas, or obtain a certificate in international studies, European studies, African Studies, East Asian studies, Latin American studies, women's studies, or writing, in conjunction with their political science major. See Certificate Programs in this *Bulletin* and consult with the Center for International Studies.

Research in political science is encouraged for students at all levels. Assistance is available at UM-St. Louis' Public Policy Research Centers, the Center for International Studies, and the Office of Computing. The department's membership in the Interuniversity Consortium for Political and Social Research provides access to a wide range of survey data on local-state-national, comparative, and international politics. In addition, extensive research opportunities are available within the metropolitan St. Louis area. Scholarships are available for qualified students; details can be obtained from the department office.

## **Undergraduate Studies**

**General Education Requirements**

Majors must satisfy the university and college general education requirements. Political science courses may be used to satisfy the social sciences requirement. The foreign language requirement for the B.A. degree may be satisfied in any language.

**Departmental Honors**

The department awards honors to students having a grade point average (GPA) of 3.2 in the major, an overall GPA of 3.2 (except in extraordinary circumstances), and successfully completed an honors thesis, project, or report.

**Degree Requirements****Bachelor of Arts in Political Science**

All majors must complete at least 36, but not more than 45, hours of political science. All students are required to take the following core curriculum:

**Poli Sci**

**1100**, Introduction to American Politics

**1500**, Introduction to Comparative Politics

**2000**, Political Analysis

**3950**, Senior Seminar in Political Science

Majors are urged to take Pol Sc 1100, 1500, and 2000 as early as possible since these courses are designed to provide a substantive foundation as well as conceptual and analytical tools for subsequent course work. Because the seminar topics in Pol Sc 3950 change from semester to semester, the course can be repeated as an elective. All majors must take at least one Seminar in Political Science.

Students also must complete at least one course in **four** of the following political science areas:

**Public Law** (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level)

**American Politics** (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).

**Public Policy and Administration** (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).

**Comparative Politics** (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).

**Political Theory** (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).

**International Relations** (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).

**Methodology** (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).

At least **18 hours** of political science course work must be at the 2000, 3000 or 4000 level, not including Pol Sc 2000. B.A. degree students may take a maximum of 3 hours of political science on a satisfactory/unsatisfactory basis; this can include any course except the required courses in the core curriculum.

**Note:** As early as possible, students should determine their educational objectives and consult with an adviser regarding a plan of study. **Those students who are uncertain of their future plans are urged to include in their 36-45 hours of political science a broad set of courses in American politics, public policy and administration, public law, comparative politics, international politics, political theory, and methodology.** In addition to this general course of study in political science, the department offers B.A. degree students several specialized programs of study in political science geared to various student academic and career interests.

**Graduate School Preparation**

This program is designed for students planning to pursue graduate studies in political science, particularly the Ph.D. degree, with the aim of a career as either an academic or practitioner (working as a researcher, policy analyst, or in some other capacity calling for advanced knowledge and skills). In addition to the core curriculum and common requirements for all political science majors, students are advised to (1) take as many political science courses at the 2000 and 3000 or 4000 level as possible in a variety of areas (public law, American politics, comparative and international politics, etc.), (2) complete a departmental honors project based on independent research and writing in Pol Sc 3900, Special Readings, and (3) give special consideration to courses in normative political theory (such as Pol Sc 2620, Modern Political Thought) and research methods (such as Pol Sc 6401, Introduction to Policy Research, which is a graduate course open to undergraduates with Graduate School approval). Students are also encouraged to take course work outside the department in microeconomics, macroeconomics, and statistics.

**Legal Studies**

This is an ideal program of study for double majors in political science and criminal justice or for any student interested in law school and a career in the law. In addition to the core curriculum and common requirements

for all political science majors, students are advised to take Pol Sc 1200, Foundations of Law: An Introduction to Legal Studies, and at least four of the following political science courses:

- 2260**, Law, Politics and Society
- 2280**, Judicial Politics and Policy
- 2290**, Gender and the Law
- 2650**, American Political Thought
- 2900**, Studies in Political Science (when appropriate)
- 3200**, Constitutional Law
- 3210**, Civil Liberties
- 3260**, The Supreme Court
- 3290**, Studies in Public Law
- 3900**, Special Readings (when appropriate)
- 3940**, Public Affairs Internship (when appropriate)
- 4850**, International Law

**Students are also advised to take political science course work that gives them a strong background in American political institutions and processes. Those students considering practicing law in the international arena should take course work in comparative and international politics. Political science course work may be supplemented by course work in criminal justice and criminology.**

#### **American Politics**

Designed for those students interested in careers in communications, education, business, social work, political consulting, and other fields requiring knowledge of American urban, state, and national politics and institutions. Education majors planning to teach in the social studies field, communications majors planning on a career in journalism, or business majors thinking about working in corporate relations may especially wish to consider a double major in political science with a focus in this area. In addition to the core curriculum and common requirements for all majors, students are advised to take at least five of the following political science courses:

- 1990**, The City
- 2280**, Judicial Politics and Policy
- 2300**, State Politics
- 2320**, African Americans and the Political System
- 2350**, Introduction to Urban Politics
- 2380**, The Politics of Gender in the United States
- 2420**, Introduction to Public Policy
- 2650**, American Political Thought
- 2820**, United States Foreign Policy
- 2900**, Studies in Political Science (when appropriate)
- 3300**, The American Presidency
- 3330**, Introduction to Political Behavior
- 3331**, Congressional Politics
- 3340**, Politics and the Media
- 3350**, Political Parties and Elections
- 3370**, Mock Constitutional Convention
- 3390**, Studies in American Politics
- 3480**, Environmental Politics
- 3900**, Special Readings (when appropriate)
- 3940**, Public Affairs Internship (when appropriate)

In addition, students may wish to choose other political science courses listed below under the public policy and administration program of study. Given the growing reality of international interdependence, students should not restrict their studies completely to American politics but should take some course work in comparative and international politics as well. Depending on their specific career interest, students may wish to round out their program with course work in other social science departments such as criminal justice, communications, economics, or social work.

#### **Public Policy and Administration**

Designed for students interested in working inside or outside government, in a career requiring familiarity with how public policies are formulated and implemented. (Students alternatively may wish to consider the B.S. in public policy and administration degree offered by the political science department.) In addition to the core curriculum and common requirements for all majors, students are advised to take Pol Sc 2420, Introduction to Public Policy, and at least four of the following political science courses:

- 2400**, Public Administration

- 2820**, United States Foreign Policy
- 2900**, Studies in Political Science (when appropriate)
- 3400**, Bureaucratic Politics
- 3410**, The Politics of Business Regulation
- 3420**, Public Personnel Management
- 3439**, Studies in Policy Formation
- 3440**, Public Budgeting
- 3450**, Urban Administration
- 3460**, The Politics of Poverty and Welfare
- 3480**, Environmental Politics
- 3490**, Studies in Public Administration
- 3570**, Gender, Race, and Public Policy
- 3940**, Public Affairs Internship (when appropriate)
- 3900**, Special Readings (when appropriate)
- 4080**, Program Evaluation
- 4470**, Urban Planning and Politics
- 4510**, Comparative Public Policy and Administration
- 4940**, Leadership and Management in Nonprofit Organizations

Depending on career interests, students should add course work in American, comparative, or international politics. Students are encouraged to develop a policy concentration in a particular policy area, such as urban, labor, health, education, and business studies, with multidisciplinary course work taken in political science and other departments.

#### **International and Comparative Studies**

Designed for students interested in international careers in government service (not only the U.S. State Department but also other federal government agencies), intergovernmental and non-governmental organizations, business, education, and other areas of employment. In addition to the core curriculum and common requirements for all political science majors, students are advised to take Pol Sc 1800, World Politics, or Pol Sc 2500, Comparing Different Worlds, and at least four of the following political science courses (some of which are international politics courses that focus on conflict and cooperation between countries, and some of which are comparative politics courses that focus on political, economic, and social change within countries):

- 1600**, Contemporary Political Ideologies
- 1820**, Global Issues
- 1850**, Global Ecology
- 2510**, Comparative Politics of Europe
- 2520**, Middle Eastern Politics
- 2530**, Political Systems of South America
- 2540**, Political Systems of Mexico, Central America, and the Caribbean
- 2550**, East Asian Politics
- 2560**, Russia and the New Republics
- 2580**, African Politics
- 2800**, Model United Nations
- 2820**, United States Foreign Policy
- 2900**, Studies in Political Science (when appropriate)
- 3570**, Gender, Race, and Public Policy
- 3590**, Studies in Comparative Politics
- 3690**, The Marxist Heritage
- 3830**, International Political Economy
- 3840**, European International Relations
- 3850**, International Organizations and Global Problem Solving
- 3860**, Studies in War and Peace
- 3890**, Studies in International Relations
- 3900**, Special Readings (when appropriate)
- 3940**, Public Affairs Internship (when appropriate)
- 4510**, Comparative Public Policy and Administration
- 4550**, Democratization in Comparative Perspective
- 4850**, International Law

Students interested in working for the U.S. Foreign Service, American-based multinational companies, and nonprofit organizations should also take course work that familiarizes them with the American political system and how public policy is made. Students should explore the various interdisciplinary area studies and international studies certificate programs offered through the Center for International Studies.

#### **Bachelor of Science in Public Policy and Administration**

The BSPA degree has two emphasis areas. The first is a public administration track, which emphasizes management in both the public and nonprofit sectors; it may produce a terminal degree or be a precursor to graduate training. The second is a public policy track in which a student may focus on a particular policy area and also acquire specialized analytic training and research skills, in preparation for relevant entry-level jobs in the public or the voluntary sector as well as in certain parts of the private sector.

**All BSPA majors must complete at least 33, but no more than 45, hours in political science. The following core curriculum is required of all BSPA majors:**

**Political Science**

**1100**, Introduction to American Politics  
**1500**, Introduction to Comparative Politics  
**2000**, Political Analysis  
**2400**, Public Administration  
**2420**, Introduction to Public Policy  
**3940**, Public Affairs Internship  
**3950**, Senior Seminar in Political Science  
**Econ 1001**, Principles of Microeconomics  
**Econ 1002**, Principles of Macroeconomics  
**Crimin 2220**, Statistical Analysis in Criminology and Criminal Justice or  
**Sociol 3220**, Sociological Statistics or  
**Econ 3100**, Economic Statistics

In addition, students must provide a demonstration of computer proficiency through one of the following:  
**Bus Ad 1800**, Computers and Information Systems, extension courses, or other study approved by the BSPA coordinator.

**BSPA students may take a maximum of 3 hours of political science on a satisfactory/unsatisfactory basis, except for the following (which may not be taken on a satisfactory/unsatisfactory basis): Pol Sc 1100, 1500, 2400, 2000, 2420, 3940, and 3950.**

**Public Administration Emphasis Area**

In addition to the core curriculum requirements for all BSPA majors, students in the public administration emphasis area are required to complete the following courses:

**Pol Sc 3420**, Public Personnel Management  
**Pol Sc 3440**, Public Budgeting  
**Bus Ad 2400**, Fundamentals of Financial Accounting

Students in the public administration emphasis area also must take two of the political science courses listed under policy and institutions courses below, as well as take at least two additional elective courses chosen from among that list or any other political science offerings.

**Public Policy Emphasis Area**

In addition to the core curriculum requirements for all BSPA majors, students in the public policy emphasis area must take four political science courses, preferably selected from the policy and institutions courses listed below but which may include other political science course offerings as well.

**Policy and Institutions Courses:**

**1450**, Introduction to Labor Studies  
**2280**, Judicial Politics and Policy  
**2300**, State Politics  
**2350**, Introduction to Urban Politics  
**3300**, The American Presidency  
**3331**, Congressional Politics  
**3400**, Bureaucratic Politics  
**3430**, Union Leadership and Administration  
**3439**, Studies in Policy Formation  
**3450**, Urban Administration  
**3460**, The Politics of Poverty and Welfare  
**3480**, Environmental Politics  
**4470**, Urban Planning and Politics  
**4510**, Comparative Public Policy and Administration  
**4940**, Leadership and Management in Nonprofit Organizations

Students will adopt a policy concentration of at least 15 credit hours. Possible areas of specialization include, but are not limited to, environmental policy, government and business, society and the legal system, urban policy, labor studies, health care, human services, and nonprofit service provision. In fulfilling the

concentration requirement, students, in consultation with the BSPA coordinator, will select courses from related disciplines in addition to taking two more political science courses related to the policy area beyond the four political science courses already required.

**Note:** Students considering the B.S. in public policy and administration should see a political science adviser as early as possible to plan their program.

#### **Requirements for the Minors**

A general minor in political science can be arranged, as well as specialized minors in eight different subfields of the discipline. Interested students should see a faculty adviser to plan a coherent program of study as a minor field.

Students must achieve a cumulative 2.0 GPA in the political science courses chosen to qualify for the minor. Students may count no more than 3 hours in political science taken on a satisfactory/unsatisfactory basis toward the minor. Students taking an internship Political Science 3940 may count no more than three hours of the internship toward the minor.

#### **Minor in Political Science, General**

Fifteen hours, chosen from among all political science courses.

#### **Minor in American Politics**

Fifteen hours, chosen from the following political science courses:

- 1100**, Introduction to American Politics
- 2300**, State Politics
- 2350**, Introduction to Urban Politics
- 2650**, American Political Thought
- 2280**, Judicial Politics and Policy
- 3300**, The American Presidency
- 3331**, Congressional Politics
- 2320**, African Americans and the Political System
- 3260**, The Supreme Court
- 3330**, Introduction to Political Behavior
- 3340**, Politics and the Media
- 3350**, Political Parties and Elections
- 2380**, Women in U.S. Politics
- 3410**, The Politics of Business Regulation
- 2420**, Introduction to Public Policy
- 2820**, United States Foreign Policy
- 3940**, Public Affairs Internship (when appropriate)
- 3390**, Studies in American Politics
- 3370**, Mock Constitutional Convention
- 3900**, Special Readings (when appropriate)

#### **Minor in Comparative Politics**

Political Science 1500, Introduction to Comparative Politics, plus 12 hours from the following political science courses:

- 2500**, Comparing Different Worlds
- 2510**, Comparative Politics of Europe
- 2530**, Political Systems of South America
- 2540**, Political Systems of Mexico, Central America, and the Caribbean
- 2550**, East Asian Politics
- 2560**, Russia and the New Republics
- 2580**, African Politics
- 3570**, Gender, Race, and Public Policy
- 3590**, Studies in Comparative Politics
- 3900**, Special Readings (when appropriate)
- 4510**, Comparative Public Policy Administration
- 4550**, Democratization in Comparative Perspective

#### **Minor in International Relations**

Fifteen hours, chosen from the following political science courses:

- 1800**, World Politics
- 1820**, Global Issues
- 1850**, Global Ecology
- 2520**, Middle Eastern Politics
- 2820**, United States Foreign Policy
- 3830**, International Political Economy

- 3840, European International Relations
- 3850, International Organizations and Global Problem-Solving
- 3860, Studies in War and Peace
- 3890, Studies in International Relations
- 3900, Special Readings (when appropriate)
- 3940, Public Affairs Internship (when appropriate)
- 4850, International Law

**Minor in Political Theory**

Fifteen hours, chosen from the following political science courses:

- 1600, Contemporary Political Ideologies
- 2610, Ancient and Medieval Political Thought
- 2620, Modern Political Thought
- 2650, American Political Thought
- 3680, Feminist Political Theory
- 3690, The Marxist Heritage
- 3690, Studies in Political Theory
- 3900, Special Readings (when appropriate)

**Minor in Public Administration**

Political Science 2400, Public Administration, plus 12 hours chosen from the following political science courses:

- 2420, Introduction to Public Policy
- 3400, Bureaucratic Politics
- 3410, Politics of Business Regulation
- 3420, Public Personnel Management
- 3439, Studies in Policy Formation
- 3440, Public Budgeting
- 3450, Urban Administration
- 3490, Studies in Public Administration
- 3900, Special Readings (when appropriate)
- 3940, Public Affairs Internship (when appropriate)
- 4080, Program Evaluation
- 4470, Urban Planning and Politics
- 4510, Comparative Public Policy and Administration

**Minor in Public Law**

Fifteen hours, chosen from the following political science courses:

- 1200, Foundations of Law: An Introduction to Legal Studies
- 2260, Law, Politics and Society
- 2280, Judicial Politics and Policy
- 2290, Gender and the Law
- 3200, Constitutional Law
- 3210, Civil Liberties
- 3260, The Supreme Court
- 3290, Studies in Public Law
- 3900, Special Readings (when appropriate)
- 4850, International Law

**Minor in Public Policy**

Political Science 2420, Introduction to Public Policy, plus 12 hours chosen from the following political science courses:

- 2300, State Politics
- 2350, Introduction to Urban Politics
- 2400, Public Administration
- 3300, The American Presidency
- 3400, Bureaucratic Politics
- 3410, The Politics of Business Regulation
- 3440, Public Budgeting
- 3450, Urban Administration
- 3460, The Politics of Poverty and Welfare
- 3480, Environmental Politics
- 3570, Gender, Race, and Public Policy
- 3900, Special Readings (when appropriate)
- 3940, Public Affairs Internship (when appropriate)
- 4080, Program Evaluation
- 4470, Urban Planning and Politics

**4510, Comparative Public Policy and Administration****Minor in Urban Politics**

Political Science 2350, Introduction to Urban Politics, plus 12 hours chosen from the following political science courses:

**2320**, African-Americans and the Political System

**3450**, Urban Administration

**3460**, The Politics of Poverty and Welfare

**3900**, Special Readings (when appropriate)

**3940**, Public Affairs Internship (when appropriate)

**4470**, Urban Planning and Politics

**Minor in Women and Politics**

**Pol Sc 1550**, Women and Politics in the Developing World and 12 hours from among the following political science courses:

**Pol Sc 2290**, Gender and the Law

**Pol Sc 2380**, The Politics of Gender in the United States

**Pol Sc 3439**, Studies in Policy Formation (consent of instructor required)

**Pol Sc 3460**, The Politics of Poverty and Welfare

**Pol Sc 3570**, Gender, Race, and Public Policy (Comparative)

**Pol Sc 3590**, Politics, Leadership and the Global Gender Gap

**Pol Sc 3680**, Feminist Political Theory

**Pol Sc 3900**, Special Readings (consent of instructor required)

**Pol Sc 4940**, Leadership and Management in Nonprofit Organizations (consent of instructor)

**Bachelor of Arts with Teacher Certification**

For information, refer to the College of Education section in this *Bulletin*.

**Bachelor of Science in Education: Emphasis in Social Studies**

The Political Science requirements are the same as for the B.A. degree except students fulfill the College of Education general education requirements rather than those of the College of Arts and Sciences. For information, refer to the College of Education section in this *Bulletin*.

**Graduate Studies****2+3 B.A. and M.A. in Political Science**

The 2+3 Combined BA/MA program in Political Science provides an opportunity for students of recognized academic ability and educational maturity to complete the requirements for both degrees in 5 years of fulltime study.

The combined program requires a minimum of 140 credit hours of which at least 33 must be at the graduate level in political science. In qualifying for the BA, students must meet all University and College requirements. Students in the combined 2+3 who successfully complete the requirements for the MA degree will be awarded a BA degree simultaneously upon completion of at least 107 hours of undergraduate credit.

Student should apply to the Department for admission to the 2+3 combined degree program in Political Science during the semester they will complete 60 undergraduate credit hours. A cumulative grade point average of 3.0 or higher and three letters of recommendation from faculty are required. Students will be admitted to the 2+3 program under provisional status until they have completed 30 hours in that program with a grade point of 3.0 or higher. After completion of the provisional period, with the recommendation of the Graduate Director, students can be granted full admission into the 2+3 program.

Students must maintain a grade point average of 3.0 or higher throughout the combined program. Students who officially withdraw from the 2+3 combined degree program, who have successfully completed all the regular requirements for the BA degree (120 hours) will be awarded their BA degree.

**Undergraduate Requirements for Student in the 2+3 Program**

A. The following must be completed prior to enrolling in the 2+3 program

**1. Students must take**

**Pol Sc 1100**, Introduction to American Politics

**Pol Sc 1500**, Introduction to Comparative Politics

**2. PLUS two of the following:**

**Pol Sc 1600**, Contemporary Political Theory

**Pol Sc 1800**, World Politics

**Pol Sc 2300**, State Politics

**Pol Sc 2350**, Introduction to Urban Politics  
**Pol Sc 2400**, Introduction to Public Administration  
**Pol Sc 2650**, American Political Thought

**B. Undergraduate Requirements Within the 2+3 Program**

**1. Two of the following:**

**Pol Sc 2280**, Judicial Politics and Policy  
**Pol Sc 2620**, Modern Political Thought  
**Pol Sc 3200**, Constitutional Law  
**Pol Sc 3210**, Civil Liberties  
**Pol Sc 3300**, The American Presidency  
**Pol Sc 3331**, Congressional Politics  
**Pol Sc 3350**, Political Parties and Elections  
**Pol Sc 3470**, Gender, Race and Public Policy  
**Pol Sc 3480**, Environmental Politics

**2. PLUS two of the following:**

**Pol Sc 2510**, Comparative Politics of Europe  
**Pol Sc 2520**, Middle Eastern Politics  
**Pol Sc 2530**, Political Systems of South America  
**Pol Sc 2540**, Political Systems of Mexico, Central American & the Caribbean  
**Pol Sc 2580**, African Politics  
**Pol Sc 3690**, The Marxist Heritage (Phil 3369; IntDsc 3690)  
**Pol Sc 3830**, International Political Economy  
**Pol Sc 3850**, International Organizations and Global Problem Solving  
**Pol Sc 4850**, International Law

**3. Plus one additional course from B-1 or B-2**

**C. Graduate Requirements**

**1. PS 6401**, Introduction to Policy Research (3 credits)

**2. PLUS 3 of the following (9 credits):**

**Pol Sc 6420**, Proseminar in Public Law  
**Pol Sc 6430**, Proseminar in American Politics  
**Pol Sc 6440**, Proseminar in Public Policy Administration  
**Pol Sc 6450**, Proseminar in Comparative Politics  
**Pol Sc 6460**, Proseminar in Political Theory  
**Pol Sc 6470**, Proseminar in Urban Politics  
**Pol Sc 6480**, Proseminar in International Relations

**3. PLUS 5 additional graduate Political Science classes (15 credits).**

Students should select an emphasis in American Politics, Public Policy, Comparative Politics, Political Theory, or International Relations.

**4. PLUS Exit Project or Internship or Thesis (6 credits)**

**Summary of Credits in Political Science:**

BA: 27 hours (12 completed in lower division courses before admission to the 2+3 program )

MA: 33 hours at the graduate level

TOTAL: 60 hours in Political Science classes

**Master of Arts in Political Science**

Admission Requirements: For admission, a student should have a baccalaureate degree with a minimum grade point average of 2.75 and an undergraduate background in the social sciences. The GRE is required, and scores should be submitted at the time of application. Two letters of recommendation are also requested for each student applying to the program. Students who do not meet these requirements may be admitted upon approval of the department and the dean of the Graduate School. Application materials may be obtained from and should be returned to the office of the director of admissions.

Deadlines are July 1 for the fall semester; December 1 for the winter semester; and May 1 for the summer term.

**Degree Requirements**

Beyond the general requirements of the Graduate School, the department requires a minimum of 27 semester hours of course work, of which 18 hours must be at the 6400 level and 12 hours must be in core courses in political science, including:

**6401**, Introduction to Policy Research  
**and three** of the following political science courses:  
**6410**, Introduction to Policy Analysis  
**6420**, Proseminar in Public Law  
**6430**, Proseminar in American Politics  
**6440**, Proseminar in Public Policy Administration  
**6450**, Proseminar in Comparative Politics  
**6460**, Proseminar in Political Theory  
**6470**, Proseminar in Urban Politics  
**6480**, Proseminar in International Relations

Students can plan their degree program to reflect the following six emphasis areas:

American Politics  
 Comparative Politics  
 International Politics  
 Political Process and Behavior  
 Public Administration and Public Policy  
 Urban and Regional Politics

Students must also select one of the following exit projects: a six-hour thesis, a six-hour internship, or six hours of additional course work and an approved paper. Students will have a mid-program review at the end of 12-15 hours of course work, at which time they will discuss their academic performance and program with a faculty committee and determine the most appropriate exit project. Each candidate is given a final oral review conducted by a faculty committee and focused on the course work completed and the student's chosen exit project.

#### **Ph.D. in Political Science**

The doctoral program emphasizes theoretical, analytic, and substantive approaches to public policy analysis and administration. Students are provided an opportunity to link core skills in policy analysis and political science with substantive emphasis in specific policy areas. The program is designed to prepare pre-career and mid-career students for advanced positions in policy research and administration, as well as for academic research and teaching.

#### **Admission Requirements**

Admission and financial aid decisions are made on the basis of past academic record, intellectual ability, and career commitment and performance. Applications are accepted from students who have either baccalaureate or master's degrees. Past graduate work will be credited toward degree requirements as appropriate. Applicants must submit a) complete academic transcripts, b) three letters of recommendation, c) aptitude tests of the GRE and d) a statement of objectives for the course of study. Application materials may be obtained from and should be returned to the office of the director of admissions. Applications for fall semester should be submitted by February 15 and for winter semester by October 15.

**Graduate Assistantships** Stipends for teaching and research assistantships (nine month/20 hours per week) are awarded on a competitive basis. Out-of-state educational fees are waived for graduate assistants.

#### **Degree Requirements**

The department requires 60 credit hours beyond the baccalaureate degree for completion of the Ph.D. To ensure sufficient background for doctoral-level policy courses, students must demonstrate appropriate competence in computing and intermediate economics during their course of study. Course requirements are as follows:

##### **Core courses (18 credit hours)**

18 credit hours will be required in the areas of research methods, theory, and policy process and institutions. Contact the department for specific courses.

##### **Additional Requirements (12 credit hours)**

In addition, students will select a minimum of 12 credit hours in public policy, theory, or process as they apply to major subfields in political science.

##### **Policy Concentration (24 credit hours)**

Students, in consultation with the program director, will develop expertise in a substantive policy area. Policy concentrations (many interdisciplinary) include but not limited to:

American National Policy

Urban Politics and Planning  
 Comparative/International Policy  
 Policy Analysis and Research Social Welfare

**Internship (6 credit hours) optional.**

The Ph.D. intern program offers an opportunity to gain first-hand experience in select research and administrative positions.

**General Examination and Dissertation**

Upon completion of course work, students are advanced to candidacy by successfully completing two general examinations, the first covering the fields of public policy institutions, processes, and analysis, and the second covering the student's chosen subfield and area of policy concentration. The degree is awarded upon completion and defense of the Ph.D. dissertation.

**Career Outlook**

**Bachelor of Arts, Bachelor of Science, and Master of Arts in Political Science**

Political science graduates have done well in obtaining appropriate employment and in pursuing graduate education. Majors develop communications and decision-making skills, learn to analyze complex policy issues, both domestic and international in scope, and have a thorough understanding of government and politics. Political science is a particularly good undergraduate major for pre-law students. Many other majors pursue graduate education in business, education, public administration, public policy administration, journalism, public relations, non-profit organizations, and many other fields. Guides to careers in political science are available in the department office.

**Ph.D. in Political Science**

The Ph.D. in political science prepares students for three career areas: 1) government leadership and management positions at the local, state, and federal levels (both for new employees and in-service employees); 2) careers in the private sector, particularly positions in public affairs, policy research, and governmental relations departments of corporations, as well as consulting firms and nonprofit organizations; and 3) research and teaching careers in academic institutions.

Requests for further information about the M.A. or Ph.D. program should be sent to the Director of Graduate Studies, Department of Political Science, University of Missouri-St. Louis, One University Blvd, 347 SSB, St. Louis, MO 63121-4499.

**Course Descriptions**

Students who have earned 24 or more semester hours of credit at any accredited post-secondary institutions(s) before the start of the fall 2002 semester must meet the general education requirements stipulated in the UM-St Louis 2001-2002 Bulletin. The following courses fulfill the Social Sciences breadth of study requirements as described in that Bulletin: 1100, \*1220, 1450, 1500, 1550, 1600, 1800, 1820, 1850, 1990, 2000, 2260, 2280, 2290, 2300, 2320, 2350, 2380, 2400, 2420, 2500, 2510, 2520\*, 2530\*, 2540\*, 2550\*, 2560, 2580\*, 2610, 2620, 2650, 2800, 2820, 2900, 3200, 3210, 3220, 3260, 3290, 3300, 3331, 3330, 3340, 3350, 3370, 3390, 3400, 3410, 3420, 3430, 3439, 3440, 3450, 3460, 3470, 3480, 3490, 3570, 3590, 3680, 3690, 3695, 3830, 3840, 3850, 3860, 3890, 3900, 3950, 4060, 4080, 4180, 4460, 4470, 4510, 4550, 4850, 4900, 4940, 4960.

Course fulfills the Humanities or Social Sciences breadth of study requirement: \*Course fulfills Cultural Diversity requirement.

The following courses satisfy the state requirement: Pol Sc 1100, 2260, 2280, 2290, 2300, 2320, 2350, 2380, 2400, 3210, 3300, 3330, 3331, 3350, 3370, 3400, 3450, 4470.

**1100 Introduction to American Politics (3) [V, SS, ST]**

Introduction to basic concepts of government and politics with special reference to the United States, but including comparative material from other systems.

**1200 Foundations of Law: An Introduction to Legal Studies (3) [MI, V, SS]**

Same as Crimin 1200 and Intdsc 1200. As a broad liberal arts approach to the study of law, this course is designed to familiarize students with legal ideas, legal reasoning, and legal processes. It also provides comparative and historical perspectives on law that will help explain legal diversity and legal change. Finally, it offers opportunities to explore some of the persistent issues in law and legal theory: for example, issues about the sources of law, the responsibilities of the legal profession, or the relative merits of the adversary system.

**1450 Introduction to Labor Studies (3) [MI, SS]**

Same as Intdsc 1450. This course covers many topics important to the role of unions in the American political system and American society from a labor perspective. institutional structure, collective bargaining strategies

Topics include the role of workers in current and future times, unions' and obstacles for union organizing, recent union campaigns, labor's political role, and the relationship between labor and the media.

**1500 Introduction to Comparative Politics (3) [MI,V, SS, CD]**

This course introduces students to western and non-western systems. It examines similarities and differences in the basic political ideologies, structures, economies, social institutions and governmental processes of developed and developing countries. It also provides frameworks for understanding the cultures of the world that are the basis for formal economic and political institutions. In addition, the course examines the role of non-state institutions, including trans-national ones, in shaping national policies. It uses case studies from Africa, Asia, Latin America, as well as Europe, to enhance student understanding of comparative politics.

**1550 Women and Politics in the Developing World (3) [MI, V, SS, CD]**

Women play a central role in the transformation of political, economic, cultural and gender relations in developing nations. This course examines the political role of women in these transformations. In particular, the course examines ways that modernity, universal education, the market economy and globalization have widened the scope of women's public activities; the emergence of social movements driven by the transformation of economic and political roles brought about by the inclusion of women in the political arena; the re-interpretation of religious doctrines, especially those that emphasize women's "return" to the private sphere and legitimate the denial of women's political rights.

**1600 Contemporary Political Ideologies (3)**

An introduction to the major political ideologies of the world today. Emphasis is placed on democracy, feminism, Marxism, and nationalism.

**1800 World Politics (3) [V, SS]**

An introduction to the field of international relations, covering such topics as nationalism, power, foreign policy-making, diplomacy, war, arms control and disarmament, interdependence, the regulation of conflict, and other aspects of politics among nations.

**1820 Global Issues (3) [MI, SS]**

A freshman- and sophomore-level course designed to introduce students to a range of global concerns, including population, hunger, trade, energy, and the environment. The worldwide implications of these and other problems will be considered, as well as their effects on local communities such as St. Louis.

**1850 Global Ecology (3) [V, SS]**

Must be taken concurrently with Biol 1850 for three hours of biology credit and three hours of political science credit. A course team-taught by the Biology and Political Science departments, combining natural science and social science perspectives in taking a global view of a variety of environmental concerns, such as air and water pollution, climate change, energy use, use and conservation of natural resources, human population ecology and other issues. Examines the underlying scientific dimension, as well as the political-economic-social aspects of problem-solving at local, national and international levels. Features labs and field trips in addition to lecture and discussion.

**1990 The City (3) [MI, V, SS]**

Same as Sociol 1999. An interdisciplinary course. Consideration of economic factors, urban institutions, historical developments in urbanization, problems of the inner city, suburbia and the metropolitan area, ethnic groups, stratification, and Psychological implications of urban living. This course is primarily for freshmen and sophomores. It is open to juniors and seniors with the instructor's permission.

**2000 Political Analysis (3)**

An introduction to political analysis, emphasizing both the logic of inquiry and practical methods. Students learn about the construction and evaluation of theories that relate to real-world politics. They also have an opportunity for hands-on experience with qualitative and quantitative methods including graphics, descriptive statistics, cross-tabular and correlational analysis, hypothesis testing, and computer applications.

**2260 Law and the Individual (3) [ST]**

Same as Crimin 2226. Prerequisite: Pol Sc 1100, or 1200, or consent of instructor. An examination of the formal and informal aspects and processes of the American judicial system and its effect on the individual. The course will cover criminal and civil law, public and private law, state and federal courts, and the processes by which disputes are transformed into legal actions. Topics include judicial selection and recruitment, plea-bargaining, the impact and implementation of judicial decisions, the examination of a number of substantive areas of law like contracts and torts, and the role of courts in policymaking and dispute resolution.

**2280 Judicial Politics and Policy (3) [ST]**

Prerequisite: Pol Sc 1100 or 1200, or consent of instructor. This course is an examination of the American state and federal legal systems. Topics examined in this course include an analysis of the structure, organization and function of courts. Emphasis will be placed on the role of juries, judges, attorneys, litigants, and interest groups in the judicial system. The objective of the course is to evaluate courts as political

institutions and analyze the policy-making role of judges.

**2290 Gender and the Law (3) [ST]**

Legal position of women in the United States , emphasizing constitutional law, criminal law, domestic relations, and fair employment practice laws. Same as WGST 2290. This course examines the ways in which laws and interpretations of laws affect gender equality in the United States. Emphasizing how traditional roles impact both women and men historically and currently, the course highlights major pieces of legislation and court rulings related to employment, economics, education, sexual harassment, pornography, rape, reproductive rights, and domestic relations. The course stresses the impact of federal and state institutions and non-governmental influences on equality. It also addresses gender representation in the legal profession and its effect on judicial decisions. (This course satisfies State requirements in American History and Government)

**2300 State Politics (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. An examination of contemporary state politics in the United States; social, economic, and political determinants of policies; federal-state-local relations; elections, interest groups, and participation; executive, legislative, and judicial institutions and policies, and their impact.

**2320 African Americans and the Political System (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. Examination of the status of African Americans in the context of the American political system. The course will focus on a number of issues, including: attitudes of various publics toward racial concerns; nature of problems in specific policy areas (e.g., unemployment, school desegregation, housing, poverty); representation of African Americans in governmental institutions and the private sector; and the role of African American leadership and civil rights groups in the political process.

**2350 Introduction to Urban Politics (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. Examination of structure and process of politics in the urban community, with emphasis on their relationships to community power structures.

**2380 The Politics of Gender in the United States (3) [ST]**

Same as WGST 2380. Prerequisite: Pol Sc 1100 or consent of instructor. This course examines the role of gender in political institutions, practices and policy in the United States, past and present. It focuses on various movements for political equality, the relationship between gender and political participation, vote choice, and public opinion, and how legislative, executive, and judicial offices are gendered at the national, state, and local levels. (This course satisfies State requirements in American History and Government.)

**2400 Public Administration (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. Survey of public administration, with reference to organization, financial administration, personnel management, and judicial control of the administrative process.

**2420 Introduction to Public Policy (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. Study of differing approaches to understanding the public policy process. Course surveys the application of social science to public issues and problems.

**2500 Comparing Different Worlds (3)**

This course focuses on the role of political institutions, economic structures and social groups in explaining differences in forms of government and levels of socioeconomic development. It explores in detail one or more of these themes in cases drawn from developing and developed nations.

**2510 Comparative Politics of Europe (3)**

Prerequisite: Pol Sc 1500 or consent of instructor. Introduction to the major political systems of Europe. The course will emphasize political culture, political parties, interest groups, and political behavior. It will also focus on political institutions and policy making. While individual countries will be examined separately, the course will also emphasize comparison between systems.

**2520 Middle Eastern Politics (3) [CD]**

Prerequisite: Pol Sc 1100, or 1500, or consent of instructor. Survey of political movements, governments, and international conflicts in the Middle East. Islam, nationalism, ideologies, and economic systems will be studied. The effects of oil and the military will also be considered.

**2530 Political Systems of South America (3) [CD]**

Prerequisite: Pol Sc 1500 or consent of instructor. An introduction to the study of the political systems of South America. Examination of the cultural context that has shaped the political, economic, and social development of states in the region.

**2540 Political Systems of Mexico , Central America, and the Caribbean (3) [CD]**

Prerequisite: Pol Sc 1500 or consent of instructor. An introduction to the study of the political systems of Mexico, Central America, and the Caribbean. Examination of the cultural context that has shaped the political,

economic, and social development of these countries.

**2550 East Asian Politics (3) [CD]**

An introduction to the study of the Chinese and Japanese political systems. Examination of the cultural context that has shaped the path of political development for both states.

**2560 Russia and the New Republics (3)**

Prerequisite: Pol Sc 1500 or consent of instructor. Examination of political-economic conditions responsible for the creation, collapse, and reconstruction of the former Soviet Union, with emphasis on new elites and interest groups, problems of democratic transition, ethnic conflict and socio-economic reform.

**2580 African Politics (3) [CD]**

Prerequisite: Pol Sc 1500 or consent of instructor. An introduction to the nature of societies, governments, and international relations in Africa. The course deals with forms of governance on the continent, regional groupings of states, and persistent conflicts within and among states. Problems of economic underdevelopment, food supplies, health and population trends, and cultural change are analyzed, along with the role of outside major power intervention.

**2610 Ancient and Medieval Political Thought (3)**

Study of political thought from Plato to Machiavelli.

**2620 Modern Political Thought (3)**

Study of political thought from Machiavelli to the present.

**2650 American Political Thought (3)**

History of political thought in the United States from colonial times to the present.

**2800 Model United Nations (1-3)**

Prerequisite: Consent of instructor. Students in this course will be members of the UM-St. Louis delegation to the Midwest Model United Nations, a "mock UN" roleplaying experience involving various universities representing UN member countries. Students are expected to develop knowledge about the UN and do research on a selected country and issue area (for example, terrorism or economic development). May be repeated up to a maximum of three credit hours.

**2820 United States Foreign Policy (3)**

Prerequisite: Pol Sc 1100, or 1500, or consent of instructor. Examination of the factors influencing the formation and the execution of United States foreign policy, with a focus on specific contemporary foreign policy issues.

**2900 Studies in Political Science (3)**

Selected topics in political science.

**3200 Constitutional Law (3) [ST]**

Prerequisite: Pol Sc 1100, or 1200, or consent of instructor. Study of leading American constitutional principles regarding legislative, executive, and judicial power, federalism, the commerce clause, and economic due process as they have evolved through the important decisions of the U.S. Supreme Court.

**3210 Civil Liberties (3) [ST]**

Prerequisite: Pol Sc 1100, or 1200, or 3200, or consent of instructor. Civil rights in the American constitutional context, emphasizing freedom of religion, freedom of expression, minority discrimination, and the rights of defendants.

**3220 Labor Law (3)**

Prerequisite: Consent of instructor. In this course, participants will examine the role of government in the regulation of labor-management relations in the United States. While the focus of the course will be on federal laws regulating private sector labor relations, parallel issues addressed in the Railway Labor Act and state public sector labor relations law will also be covered. Specific topics include the legal framework for the organization of workers, definition of prohibited or unfair labor practices of employers and unions, legal regulation of the collective bargaining process, regulation of the use of economic weapons in labor disputes, enforcement of collective bargaining agreements and the regulation of internal trade union activities.

**3260 The Supreme Court (3) [ST]**

Prerequisite: Pol Sc 1100, or Pol Sc 1200, or consent of instructor. An examination of the role, function and assertion of power by the U.S. Supreme Court in our constitutional democracy. Topics include historical overview of the Supreme Court, the process of selecting Supreme Court Justices, life in the Court, Supreme Court decision making, Supreme Court policymaking, implementation and impact of Court decisions and the role of the Supreme Court as a national policymaker. This course fulfills the state requirement.

**3290 Studies in Public Law (3)**

Prerequisite: Pol Sc 1100, or 1200, or consent of instructor. Selected topics in public law. May be repeated.

**3300 The American Presidency (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. Study of the constitutional, political, legislative, and administrative roles played by the American chief executive in the development of public policy.

**3330 Introduction to Political Behavior (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. An introduction to political behavior employing perspectives from both political psychology and political sociology. Subjects include political socialization, the character of public opinion, citizen participation, group dynamics, the social determination of reality, and the underlying bases of leadership and authority.

**3331 Congressional Politics (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. An examination of the Congress of the United States, its history and evolution, its contemporary politics, and its role in the national policy-making process. Topics include candidate recruitment, campaigns and elections, representation, committees, legislative leadership, roles and norms, voting alignments, lobbyists and interest groups, oversight of administration, and House-Senate comparisons. The role of Congress in foreign policy, economic policy, and social-welfare policy will be examined.

**3340 Politics and the Media (3)**

Prerequisite: Pol Sc 1100 or consent of instructor. An analysis of the role the media play in shaping American political life. The first part of the course examines the organizational structures, the economic and psychic incentives, and the social and professional norms that define how television and newspapers report news about public affairs. The second part then considers the nature of a mass-communications society by looking at how reality is defined, the susceptibility of mass publics to persuasion and propaganda, the peculiar form of media election campaigns, and the manner in which the media link changes the basic character of a citizenry.

**3350 Political Parties and Elections (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. An examination of the part played by parties and elections in American politics. Topics include the historical development of the party system, the organization and management of political parties and campaigns, contemporary changes in the nature of electoral politics, and the effects of elections on public policy.

**3370 Mock Constitutional Convention (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. An active exercise in political imagination. Students make proposals and bargain with each other to write a constitution for the United States in the 21st century. Students are encouraged to develop new views of what is a desirable society and to gain a richer appreciation of how practical politics are conducted. The course is designed for majors and nonmajors who enjoy political discussion and have a genuine interest in political life.

**3390 Studies in American Politics (3)**

Prerequisite: Pol Sc 1100 or consent of instructor. Selected topics in American politics. May be repeated.

**3400 Bureaucratic Politics (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. Examination of the policy-making process within public organizations and the forces influencing the making of bureaucratic policy. Study of the role of the bureaucracy as one of several "actors" in the larger policy process.

**3410 Politics of Business Regulation (3)**

Prerequisite: Pol Sc 1100 or consent of instructor. This course will examine the role of governmental decision-making processes in regulatory policy, including congressional politics, presidential initiatives, administrative rulemaking, and society wide constraints. The impact of government regulation and alternative means for accomplishing regulatory goals (e.g., mandatory standards or incentive systems) will also be considered. Bureaucratic incentives and the role of the courts will be emphasized. Selected areas of regulation which may be covered include: equal employment policies, occupational health and safety policies, environmental policies, employment policies, and urban policies.

**3420 Public Personnel Management (3)**

Prerequisite: Pol Sc 1100, or 2400, or consent of instructor. A study of personnel practices in the public sector, including recruitment, job development, labor relations, and administration of equal employment/affirmative action programs.

**3430 Union Leadership and Administration (3)**

Prerequisite: Consent of instructor. This course will focus on the roles and challenges of union leadership in a changing environment. Topics will include the union leader's roles as representative, organizer and educator as well as administrative responsibilities within the union and the relationship with enterprise management in both adversarial and participatory situations. Options for leadership style and organizational models will be

discussed and explored in both theory and practice. Leaders will develop their skills of motivation, speaking, strategic planning and managing complex campaigns and diverse organizations.

**3439 Studies in Policy Formation (3)**

Prerequisite: Consent of instructor. Selected topics in policy formation. May be repeated.

**3440 Public Budgeting (3)**

Prerequisite: Pol Sc 1100 or consent of instructor. Budgeting is the study of "who gets what" and who pays for it. This course examines the administration and politics of federal, state, and local government budgets. Students gain experience in interpreting budget documents and making budget choices, using electronic and other resources.

**3450 Urban Administration (3) [ST]**

Prerequisite: Pol Sc 1100 or consent of instructor. Study of administrative machinery and practices of metropolitan government, how metropolitan areas organize themselves to provide services, how urban policies are made and implemented, how budgeting and personnel recruitment processes operate, and how these relate to urban policies.

**3460 The Politics of Poverty and Welfare (3)**

Prerequisite: Pol Sc 1100 or consent of instructor. An examination of the structure of income inequality in the U.S. and public policies designed to redistribute wealth and to treat poverty. The history of welfare programs, the growth of the welfare state, and attempts to cut social spending are closely examined.

**3470 Collective Bargaining (3)**

Prerequisite: Consent of instructor. This course involves a study of collective bargaining processes including contract negotiations, contract administration, and methods for the resolution of bargaining disputes. Both theoretical and applied issues in collective bargaining will be addressed. Specific topics include the economic determination of bargaining power, legal constraints on the bargaining process, negotiations strategies and techniques, and the use of mediation and arbitration in the resolution of bargaining disputes.

**3480 Environmental Politics (3)**

Prerequisite: Pol Sc 1100 or consent of instructor. This course examines the process of environmental policy-making and key environmental issues. Topics include national and international policies toward air and water pollution, energy use, solid and toxic waste disposal, global warming, overpopulation, and wilderness and wildlife conservation.

**3490 Studies in Public Administration (3)**

Prerequisite: Pol Sc 1100, or 2400, or consent of instructor. Selected topics in public administration. May be repeated.

**3570 Gender, Race and Public Policy (3)**

Prerequisite: Pol Sc 1100, or 1500, or consent of instructor. Raises the question as to whether "more women in politics," stemming from diverse economic, racial, ethnic backgrounds and age groups, will necessarily result in better policies for women and men. Compares gendered and racialized impacts of a wide array of public policies (in the areas of education, employment, health care, welfare, and reproductive technologies) across a broad sample of advanced industrial societies. Analyzes the "empowerment" potential of new equality policies being generated at the international and supranational levels (e.g., in the UN and the European Union).

**3590 Politics, Leadership and the Global Gender Gap (3)**

Prerequisites: Pol Sc 1500 or consent of instructor. Compares women's day-to-day leadership and participation patterns across a wide variety of political-economic contexts, emphasizing their performance as elective and administrative office holders. It examines the experiences of individual female leaders, long-term nomination and recruitment strategies, and the larger political opportunity structure awaiting women beyond the year 2000.

**3595 Studies in Comparative Politics (3)**

Prerequisite: Pol Sc 1500 or consent of instructor. Selected topics in comparative politics. May be repeated.

**3680 Feminist Political Theory (3)**

A study of the history of feminist political thought with an emphasis on contemporary concerns. Issues to be considered include the feminist theories of the state, gender and justice, and equality and difference.

**3690 The Marxist Heritage (3)**

Same as Phil 3369 and Intdsc 3690. Study of Marx and leading Marxists. Designed to evaluate their influence on recent political, economic, and social thought and institutions.

**3695 Studies in Political Theory (3)**

Prerequisite: Pol Sc 1100, or 1500, or consent of instructor. Selected topics in political theory. May be

repeated.

**3830 International Political Economy (3)**

Prerequisite: Introduction to international political economy. In particular, it will focus on the politics of international trade, finance, and investment. It will analyze the relationships between developed and developing countries, and it will assess the relative usefulness of alternative frameworks for studying international political economy.

**3840 European International Relations (3)**

Prerequisite: Pol Sc 1100, or 1500 or consent of instructor. European international relations since World War II. Emphasis upon developments from the Cold War to D tente emphasizing such concepts as containment, Truman Doctrine, Marshall Plan, NATO, WTO, community building, force structures, and security.

**3850 International Organizations and Global Problem Solving (3)**

Prerequisite: Pol Sc 1100 or 1500, or consent of instructor. Introduction to the study of international organization. The course focuses on relationships between nation-states and "nonstate" actors (e.g., global intergovernmental organizations such as the United Nations, and nongovernmental organizations such as multinational corporations) in world politics and on the role of international institutions in such problem areas as economic development, management of resources, and control of violence across national boundaries.

**3860 Studies in War and Peace (3)**

Prerequisites: Junior standing and Pol Sc 1100, or 1500, or consent of instructor. Exploration, development, and testing of theories about the causes and consequences of war, peace, and conflict among nations. A broad range of literature on war and peace will be reviewed and applied to crisis situations in the international system.

**3890 Studies in International Relations (3)**

Prerequisite: Pol Sc 1100, or 1500, or consent of instructor. Selected topics in international relations. May be repeated.

**3900 Special Readings (1-10)**

Prerequisite: Consent of instructor. Independent study through readings, reports, and conferences. May be repeated.

**3940 Public Affairs Internship (1-6)**

Prerequisites: Junior standing and consent of instructor. Independent study involving work with an appropriate public or private agency. A maximum of 6 credit hours may be earned.

**3950 Senior Seminar in Political Science (3)**

Prerequisites: Senior standing and consent of instructor. Required of all political science majors in their last year of course work as an integrative capstone experience. Emphasis is on student-faculty interaction in a seminar format designed to engage upper-level students in a critical examination of a broad theme in political science, leading to the production of a major research paper. Topics vary. May be repeated. This course is not available for graduate student credit.

**4040 Survey Research Practicum (3)**

Same as Econ 4140 and Sociol 4040. Prerequisites: Junior standing and consent of the instructor. The execution of a sample survey, including establishing study objectives, sampling, questionnaire construction, interviewing, coding, data analysis, and presentation of results.

**4060 Theory of Decisions and Games (3)**

Prerequisite: Six hours of Philosophy and junior standing, Pol Sc 6401 (or the equivalent) or consent of instructor. Same as Phil 4465. A study of rational decision making, including games against nature, zero-sum games and social choices. Topics will include the following: expected utility maximization, the Prisoner's Dilemma, Nash equilibria, and Arrow's theorem on the impossibility of a social welfare function. Parts of the course are technical in nature; a prior course in mathematics (e.g., finite mathematics, calculus, statistics or an economics course with a mathematical component), symbolic logic, or some other course with comparable mathematical content.

**4080 Program Evaluation (3)**

Prerequisites: Pol Sc 1100, or 2400, and one of the following: Bus Ad 3300, Sociol 3200, Crimin 2220, or consent of instructor. Study of techniques and applications for evaluating the impact of public programs.

**4090 American Government for the Secondary Classroom (3)**

Prerequisites: Pol Sc 4090/Sec Ed 4090 must be taken concurrently with Hist/Sec Ed 4011 except with special consent of the School Studies Coordinator. (Same as Sec Ed 4090) Adapts the themes and subject matter of American government to the secondary classroom and trains teachers in techniques particularly designed to maximize the use of primary sources, foster critical inquiry, and encourage knowledge of subject matter.

Particular emphasis will be placed on defining the broad and connecting themes of American government, on expanding bibliography, and on choosing methods of inquiry for use in an interactive classroom. Either Hist/Sec Ed 3257 or 3258 or Pol Sc/Sec. Ed. 3209 must be taken the same semester as Hist/Sec Ed 3255 except with special consent of the Social Studies Coordinator. Can be counted towards the Political Science major requirement, but not the American Politics subgroup. Counts towards Social Studies Certification.

**4180 Social Choice in Political-Economic Systems (3)**

Prerequisites: Two courses in Economics, Political Science, or Sociology. A study of the mechanisms of social choice from the standpoint of individuals and institutions maximizing their objectives. This area draws on work done by sociologists, political scientists, and economists.

**4460 Urban Planning and Politics (3) [ST]**

Prerequisite: Pol Sc 1100, or 2400, or consent of instructor. Examination of the political processes of urban areas as they relate to the planning of services and facilities.

**4470 Introduction to Environmental Law and Policy (3)**

Prerequisite: Senior or graduate standing or consent of instructor. Survey of the most prominent federal laws governing environmental compliance and pollution control. Examines laws applicable to environmental impact statements, air pollution, water pollution, and hazardous waste. Addresses policy concerning the relative merits of using technological capabilities as compared with health risks in setting environmental standards. Discusses the need for environmental regulation to protect societal resources.

**4510 Comparative Public Policy and Administration (3)**

Prerequisite: Pol Sc 1500 or consent of instructor. A comparative study of the characteristics of public administrators, their institutions and environments in Western democratic, developing nations, and communist political systems.

**4550 Democratization in Comparative Perspective (3)**

Prerequisite: Pol Sc 1500 or consent of instructor. This course explores the meaning of democracy and the nature of transitions to democracy, particularly the processes of political liberalization and democratization that follow the breakdown of authoritarian rule. Cases will be drawn from Latin America and other regions.

**4850 International Law (3)**

Prerequisite: Pol Sc 1100, or 1500, or consent of instructor. Study of the international legal system, including the content and operation of the laws of war and peace, how law is created and enforced with regard to the oceans and other parts of the globe, and the relationship between international law and international politics.

**4900 Topics in Political Science (3)**

Prerequisites: Pol Sc 1100 or consent of Instructor. Selected topics in political science.

**4911 Management Issues in Nonprofit Organizations: Staff Management Issues (1)**

Prerequisite: Junior Standing. Same as Soc Wk 4911 and P P Ad 4911. This course addresses issues involved in managing staff in nonprofit organizations. The course will cover the following topics: fundamentals of staff supervision; balancing supervisory processes with counseling and coaching; selecting, hiring, evaluating, and terminating staff; and legal issues that affect these processes.

**4912 Management Issues in Nonprofit Organizations: Legal Issues in Governing and Managing Nonprofit Organizations (1)**

Prerequisite: Junior Standing. Same as Soc Wk 4912 and P P Ad 4912. This course addresses legal issues involved in managing and governing nonprofit organizations. The course will cover the following topics: The Board as steward of the organization; Director and officer liability; tax laws concerning charitable giving; legal issues in managing staff and volunteers (e.g., hiring, evaluating, and terminating employees); Missouri nonprofit law.

**4913 Management Issues in Nonprofit Organizations: Financial Issues (1)**

Prerequisite: Junior Standing. Same as Soc Wk 4913 and P P Ad 4913. This course addresses financial issues involved in governing and managing nonprofit organizations. The course will cover the following topics: Cash flow analysis; budgeting; fund accounting; cost accounting (determining costs for programs and services); understanding and using standard financial statements, including balance sheets, cash flow statements, statements of activity, and operating and capital budgets.

**4940 Leadership and Management in Nonprofit Organizations (3)**

Same as P P Ad 4940, Soc Wk 4940, and Sociol 4940. Prerequisite: Junior standing. Addresses the role and scope of the independent sector in the United States, as well as the leadership and sector, the role of volunteerism in a democratic management of nonprofit organizations within that sector. Topics include the economic and political scope of the independent society, and the role and scope of philanthropy. Topics include the dynamics, functions and membership voluntary organization management and leadership structure of NPOs, especially staff-board and other volunteer relations; governance and management of NPOs; resource

mobilization; and program development management and evaluation.

**4960 American Philanthropy and Nonprofit Resources Development (3)**

Prerequisite: Junior standing or consent of instructor. Same as Soc Wk 4960 and P P Ad 4960. This course addresses the history, philosophy, roles and scope of philanthropy in the United States, including its role in the nonprofit, voluntary sector. It further examines the contemporary forces which impact philanthropy and charitable giving, both by institutions and individuals. The course examines the effective planning and management of development programs (e.g., annual giving), fund raising vehicles (e.g., mail solicitations) and the fund raising process, from planning through donor relations.

**6400 Analytic Perspectives in Political Science (3)**

An introduction to the graduate study of political science. The course presents a number of analytic approaches to the scientific examination of a wide variety of political phenomena.

**6401 Introduction to Policy Research (3)**

Same as P P Ad 6010. Procedures for testing explanations, including research design, principles of measurement, probability sampling, methods of data collection, and techniques for analyzing data.

**6402 Intermediate Techniques in Policy Research (3)**

Prerequisites: Graduate standing and Pol Sc 6401. Elementary distribution theory, statistical inference, and an introduction to multiple regression. Emphasis on practical applications.

**6403 Advanced Techniques in Policy Research (3)**

Prerequisites: Graduate standing and Pol Sc 6402. Selected topics in policy research emphasizing forecasting, modeling, and estimation.

**6404 Multi-Method Research Design (3)**

Prerequisites: Pol Sc 6403 or consent of instructor. Develops policy research skills that combine qualitative and quantitative social science tools and applies an appropriate mix of these tools to specific policy problems. Topics include alternative approaches to causal analysis, levels of analysis, triangulation from a variety of qualitative and quantitative research techniques, building contextual effects into multiple research projects, techniques for assessing alternative program theories and clarifying implicit assumptions, and meta-analysis of secondary data sources.

**6405 Directed Readings in Research Methods (1-10)**

Independent study through readings, reports, research projects, and conferences.

**6406 Survey Research Methods (3)**

Prerequisites: An introductory statistics course (such as Soc. 3220 or consent of instructor. A course on the principles and procedures for conducting survey research. Topics include: forming questions and scales, survey design, sampling methods, data preparation and analysis, and presentation of results.

**6410 Introduction to Policy Analysis (3)**

Same as P P Ad 6000. Systematic development of a critical/analytic base for dealing with public policy.

**6411 Seminar in Policy Analysis (3)**

Prerequisite: Pol Sc 6410. Evaluation and criticism of contemporary public policies in selected areas.

**6414 Topics in Public Policy Analysis (3)**

Intensive analysis of a specific public policy area such as housing, budgeting, integration, planning, metropolitan reorganization. Course may be repeated.

**6415 Directed Readings and Research in Public Policy (1-10)**

Same as P P Ad 6150. Prerequisite: Consent of Instructor. Independent study through readings, reports, research projects, and conferences. May be repeated for credit, provided the subject matter is different.

**6416 Family Policy (3)**

Prerequisites: Soc Wk 5200 or equivalent or consent of instructor and graduate standing. Same as Soc Wk 5200 and Sociol 6200. Examines policy development, implementation and impact of social policies on children, youth, and families. International, national, and state policies that affect basic family needs will be the focus, including topics such as economic support, health care, child care and Intended and protection, and child and youth development. unintended consequences of existing policies on the family will be examined as well as future policy directions.

**6417 Income and Pension Policy for the Aged (3)**

Prerequisite: Graduate standing or consent of instructor. Same as Geron 6417 and P P Ad 6170 and Soc Wk 6417. (MSW student normally take the social policy foundation course prior to enrolling in this course.) Examination of federal, state, and local policies that affect the economic well-being of the elderly. The development of social security programs and pension programs is explored within historical context. Emphasis

is placed on the analysis of current policy problems and proposed solutions.

**6418 Social and Economic Development Policy (3)**

Prerequisites: Soc Wk 5200 or equivalent or consent of instructor and graduate standing. Same as Soc Wk 6250. Examines major trends and alternatives in social and economic development policy in state, national, and international perspectives. Students will develop skills in policy analysis and development.

**6419 Cases in Public Policy Analysis (3)**

Intensive analysis of several public policy cases. Cases will be problem-solving exercises in areas such as personnel management, program financing, budget preparation, and planning.

**6420 Proseminar in Public Law (3)**

Prerequisite: Graduate standing. Study of judicial systems and processes (judges, courts, litigants, and juries) and evaluation of legal policies (compliance, impact, and deterrence).

**6421 Seminar in Public Law (3)**

Research problems and designs, models and approaches to the study of public law. May be repeated for credit when the subject matter is different.

**6422 Law, Courts, and Public Policy (3)**

Prerequisite: Graduate standing. Analysis of public policies, as represented by laws, court decisions, and agency adjudication, judicial review, discrimination, affirmative action, urban planning, social welfare, intergovernmental relations, environmental law, freedom of information, and privacy concerns will be surveyed. The relationship between courts and the Constitution, courts and legislatures, and courts and the administrative process will be stressed.

**6425 Directed Readings and Research in Public Law (1-10)**

Independent study through readings, reports, research projects, and conferences.

**6430 Proseminar in American Politics (3)**

Study of individual and group political behavior, including socialization, participation, consensus formation, representation, and legislative and judicial behavior.

**6431 Seminar in American Politics (3)**

Research problems and design in American political process and behavior. May be repeated for credit when the subject matter is different.

**6432 Intergovernmental Relations (3)**

Prerequisite: Graduate standing. In the United States, nearly all domestic policy is implemented through an extremely complex intergovernmental system in which the federal government administers grants-in-aid or sets standards for states and localities that administer programs. This course will analyze this policy system by: (1) tracing the origins and evolution of American federalism; (2) analyzing the grants-in-aid system, especially the New Deal; (3) comparing the United States system with federal and unitary policy systems in other industrialized nations.

**6433 Elections, Public Opinion, and Public Policy (3)**

Prerequisite: Graduate standing. This course provides an opportunity for graduate students to examine electoral politics and democratic governance. It includes an historical review of the dynamics of the American party system, paying particular attention to the ways that politicians translate social and economic change into the political system. It surveys the scientific community's understanding about mass political behavior, covering such topics as the nature of political beliefs, partisanship, political trust, tolerance, ideology, motives for participation, and so on. Then it gives particular attention to the instruments that seem to shape public opinion - the family, the social peer group, and the mass media. Finally, it presents analyses of the contemporary political system in terms of the links between citizen preferences, electoral outcomes, and the government's provision of public policies.

**6435 Directed Readings and Research in American Politics (1-10)**

Independent study through readings, reports, research projects, and conferences.

**6440 Proseminar in Public Administration (3)**

Same as P P Ad 6400. Examination of major approaches to analyzing public policies and their administration. Emphasis is on the effects of administrative organization and procedures on policy decisions and their impacts. Specific topics may include administrative accountability, intergovernmental relations, public-private interaction, implementation processes, bureaucratic expertise, the legal environment of public policy administration, and public service and merit issues.

**6441 Seminar in Public Administration (3)**

Research problems and design in public administration. May be repeated for credit when the subject matter is

different

**6442 The Policy Process (3)**

Prerequisite: Graduate standing. The course will require a major research project using federal documents and other primary sources of information about the United States policy process. Topics will include the sources of public policy; the policy agenda; policy design, legitimation, and implementation.

**6443 Health Care Policy (3)**

Prerequisite: Graduate standing or consent of instructor. Same as P P Ad 6430 Geron 6443 and Soc Wk 6443. (MSW students will normally take the social policy foundation course before enrolling in this course). Survey course examining current issues in health policy that face the nation. Policies are placed in a historical context to show how issues have been influenced by different political and economic conditions. Secondary consequences and limitations of current trends in health policy are explored.

**6444 Seminar in Public Policy and Aging (3)**

Same as P P Ad 6444 and Geron 6444. Prerequisite: Consent of instructor. The study of specialized issues and methods related to federal, state, and local policies that affect the elderly. Potential policy areas to be covered include housing, taxation, mental health, transportation, etc. May be repeated for credit, provided the subject matter is different.

**6445 Directed Readings and Research in Public Administration (1-10)**

Independent study through readings, reports, research projects, and conferences.

**6446 Selected Topics in Health Care Policy (3)**

Same as P P Ad 6460 and Sociol 6446. Prerequisite: Consent of instructor. The study of specialized issues and methods relating to health care policy. May be repeated for credit, provided the subject matter is different.

**6447 Seminar in Public Policy (3)**

Prerequisite: Graduate Standing. Research seminar aimed at producing a substantial research project in the areas of public policy processes and outcomes. The seminar may focus on specific policy processes such as agenda-setting, policy formulation, or policy adoption, or it may focus on the politics of specific policy areas such as environmental programs, social legislation or regulation. May be repeated for credit when the subject matter is different.

**6448 Political Economy and Public Policy (3)**

Prerequisite: Graduate standing. This course examines political economy in its contemporary manifestations as public choice and as the study of the ways in which institutional power shapes economic policies and performance. The course explores the origins and major concepts of political economy, the institutions of economic policy-making and economic policies in the U.S. It emphasizes the consequences of budget constraints, inflation, unemployment, and sectoral decline on the design and administration of public programs at all levels of government.

**6449 Human Resources in the Public Sector (3)**

Prerequisite: P P Ad 6600 or consent of instructor. Same as Soc Wk 6449 and P P Ad 6490. Presents an overview of personnel and labor relations in the public sector. Particular emphasis placed on issues which are unique to the public sector, such as the merit system, the questions of representative bureaucracy and the constraints of personnel in the nonprofit sector. The topics include personnel reforms in the federal sector, equal employment and affirmative action policies, testing, selection, hiring, comparable worth, job evaluation, and labor relations including grievance arbitration and collective bargaining.

**6450 Proseminar in Comparative Politics (3)**

Classification and topology of political systems; structural-functional analysis; political culture, ideology, affiliation and participation; decision-making processes; political roles; organization of authority.

**6451 Seminar in Comparative Politics (3)**

Research problems and design in comparative politics. May be repeated for credit when the subject matter is different.

**6452 Public Policy of Conservation and Sustainable Development (3)**

Same as Biol 6250. Prerequisites: Graduate standing in Political Science or Biology and consent of instructor. Prior course in ecology recommended. This course will introduce the student to concepts and techniques for formulating, implementing, and analyzing public policy with an emphasis on environmental concerns, conservation, and sustainable development. The course will be team-taught by a political scientist and a biologist. Course materials will include case studies that demonstrate the special problems of environmental policymaking in developing and developed economies.

**6455 Directed Readings and Research in Comparative Politics (1-10)**

Independent study through readings, reports, research projects, and conferences.

**6457 Seminar in East Asian Politics (3)**

Prerequisite: Graduate standing or consent of instructor. Study of concepts and research on the political culture, ideology, groups, political processes and institutions, and policy outcomes in the Chinese and/or Japanese political systems.

**6458 Seminar in European Politics (3)**

Prerequisite: Graduate standing or consent of instructor. Study of national political cultures, ideologies, regional security issues, national as well as supranational political institutions, and policy processes in Europe, with emphasis on post Cold-War developments.

**6459 Seminar in Latin American Politics (3)**

Prerequisite: Graduate standing or consent of instructor. This course focuses on the twin issues of economic and political change in Latin America. It explores shifts from open free-market models and provides tools to assess recent transitions from authoritarianism to democracy. Country cases include Mexico, Brazil, Argentina, Chile. Two Central American countries, El Salvador and Nicaragua plus Cuba also will receive attention.

**6460 Proseminar in Political Theory (3)**

Study of concepts and problems in normative political theory.

**6461 Seminar in Political Theory (3)**

Research problems and design in political theory. May be repeated for credit when the subject matter is different.

**6462 Political Theory and Public Policy (3)**

This course covers the ideological and ethical context of public policy and public policy analysis. Special attention is given to the way in which different contexts produce both different public policy and different ways of understanding public policy. Questions addressed include accountability, professionalism, freedom, justice, equality, and, in general, ethical issues faced by both the policy maker and the policy analyst.

**6465 Directed Readings and Research in Political Theory (1-10)**

Independent study through readings, reports, research projects, and conferences.

**6470 Proseminar in Urban Politics (3)**

Examination of the relationships among the social, economic, and political systems of urban areas. Urban political structure, patterns of influence, political participation, and communication and political change. Special attention to problems of access to and control of urban political systems.

**6471 Seminar in Urban Politics (3)**

Research problems and design in urban and regional politics. May be repeated for credit when the subject matter is different.

**6475 Directed Readings and Research in Urban Politics (1-10)**

Independent study through readings, reports, and conferences.

**6480 Proseminar in International Relations (3)**

Examination of various approaches to the study of international politics and foreign policy, focusing on studies of conflict, decision making, international political economy, and related topics. Included are realist, idealist, and Marxist perspectives.

**6481 Seminar in International Relations (3)**

Research problems and design in international politics. May be repeated for credit when the subject matter is different.

**6482 International Political Economy (3)**

Prerequisite: Graduate standing. This course will examine the theoretical and policy issues of international political economy. In particular, it will focus on the politics of international trade, finance and investment. It will also analyze the themes of interdependence, hegemony, and dependency, as well as consider relations between developed and developing countries. Finally, the relative usefulness of liberal, Realist and Marxist approaches to the study of international political economy will be weighed.

**6485 Directed Readings and Research in International Relations (1-10)**

Independent study through readings, reports, research projects, and conferences.

**6488 Studies in International Relations (1-6)**

Prerequisite: Graduate standing. Selected topics in international studies. May be repeated for credit provided the topic of the course is different each time.

**6490 Strategic and Program Planning for Nonprofit Organizations (3)**

Prerequisites: Graduate standing or consent of instructor. Same as P P Ad 6550 and Soc Wk 6491. Strategic

and program planning enable an organization to concentrate on efforts and set priorities guided by a mission, a vision, and an understanding of its environment. Focus is on preparing a strategic plan and a program plan for a nonprofit organization and analyzing an organization's ability to deliver goods and/or services to its constituents in today's economic, social and political climate.

**6494 Thesis Research (1-10)**

Arranged.

**6495 Internship (1-6)**

Independent study involving work with an appropriate public or private agency.

**7499 Dissertation Research (1-10)**

Arranged

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Pre-Professional Programs

Students at the University of Missouri-St. Louis may develop pre-professional study programs from the university's academic offerings in architecture, engineering, dentistry, journalism, law, medicine, optometry, or pharmacy. With early and careful advising, students may develop a two-year study program in preparation for transfer into a professional program in the junior year, or select a major field of study in preparation for graduate professional study.

Students should seek pre-professional faculty advisers in their interest area early in their academic careers to ensure development of sound, comprehensive study programs which fulfill the admission requirements of the professional program to which they wish to apply.

The following information on pre-professional study at UM-St. Louis is provided to give students minimal guidelines and assistance in planning a program.

### Pre-Architecture

The Department of Art and Art History sponsors the 3+4 Program for the School of Architecture at Washington University. A student who is accepted to the School of Architecture, Washington University, at the end of the junior year may graduate with a Bachelor of Arts degree in art history from UM-St. Louis after the satisfactory completion of the first year of professional school upon meeting one or more of the following conditions:

- 1) The student has completed all general education requirements and all requirements for the art history major and lacks only the total hours (electives) necessary for a degree. (The courses at Washington University will fulfill all remaining courses.)
- 2) A student who has not completed required courses for the art history degree must remedy the deficiency with courses taken at the UM-St. Louis within three years of entering the professional school. At the time of graduation, the student must remain in good standing in the professional school or have successfully graduated from professional school.
- 3) A student who has not completed all the courses required for the art history major may, if the art and art history department at UM-St. Louis approves, substitute up to six hours of appropriate course work from the professional school.

The requirement that 24 of the last 30 hours of course work for a degree be taken at UM-St. Louis shall be waived where necessary for students graduating under this procedure. For more information on admission requirements, please contact the College of Arts and Sciences at (314) 516-5501, 303 Lucas Hall.

### Pre-Engineering

**The Joint Undergraduate Engineering Program of the University of Missouri-St. Louis and Washington University was established in 1993. It allows UM-St. Louis to offer complete Bachelor of Science degree programs in mechanical, electrical and civil engineering.**

All three programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

Students who enter the joint program take the pre-engineering half of their course work on the campus of UM-St. Louis. The remaining half of their degree programs, consisting of upper-level engineering courses and laboratories, is taken on the campus of Washington University and taught by Washington University engineering faculty members. The two campuses are separated by a driving time of about 15 minutes.

The UM-St. Louis pre-engineering program provides a solid base in mathematics, physics, chemistry, and introductory engineering subjects. Students completing the pre-engineering program will be well prepared for transferring to engineering schools throughout the United States, including UM-Columbia, UM-Rolla, Washington University, and SIU-Edwardsville, in addition to continuing their education and earning their engineering degrees at UM-St. Louis.

### Admission Requirements

In addition to the general admission requirements, prospective undergraduate engineering and pre-engineering students may be required to take a mathematics placement test, given at UM-St. Louis, the semester before enrolling.

Although there is no required pattern of high-school units for admission to the undergraduate engineering or

pre-engineering programs, students are urged to complete at least four units of mathematics, including units in algebra (excluding general mathematics) and trigonometry. Calculus, if available, is also strongly recommended.

The following indicates pre-engineering course work required for students planning to pursue a Bachelor of Science degree in engineering at UM-St. Louis through the joint program with Washington University.

#### **Math**

**1800**, Analytic Geometry and Calculus I

**1900**, Analytic Geometry and Calculus II

**2000**, Analytic Geometry and Calculus III

**2020**, Introduction to Differential Equations

#### **Chemistry**

**1111**, Introductory Chemistry I

**1121**, Introductory Chemistry II

#### **Physics**

**2111**, Physics: Mechanics and Heat

**2112**, Physics: Electricity, Magnetism, and Optics

#### **Introductory Engineering**

##### **Engineering**

**2310**, Statics

**2320**, Dynamics

#### **Humanities, Social Sciences, and English Composition**

##### **English**

**1100**, Freshman Composition

**Humanities Electives** (three courses)

**Social Sciences Electives** (three courses)

Students planning to earn a bachelor of science degree in engineering at UM-St. Louis should choose humanities and social sciences electives to meet both the UM-St. Louis general education requirements and the humanities and social sciences requirements of the Joint Undergraduate Engineering Program. In particular:

\* A course in American history or government, or in Missouri history or government, must be included.

\* The cultural diversity requirement must be fulfilled.

\* A total of three humanities and three social science courses are required. At least one course must be at the junior level or higher, taken at a four-year institution.

Please contact the UM-St. Louis Engineering Advisor at 314-516-6800 to be sure that the required humanities and social science courses are selected.

For further information about undergraduate engineering and pre-engineering programs at UM-St. Louis, please contact the UM-St. Louis/Washington University Joint Undergraduate Engineering Program at 228 Benton Hall, (314) 516-6800.

#### **Pre-Journalism**

Students wishing to pursue a journalism degree should review the entrance requirements of the schools they would like to attend for information on suggested pre-journalism courses of study.

Students who plan to major in journalism at the University of Missouri – Columbia (MU) are encouraged to transfer no more than 45 hours, since a cumulative 3.0 gpa must be established at MU for at least one semester to qualify for admission. In addition, students must complete 60 acceptable hours that include the required courses listed below.

**English Composition:** English 1100-Freshman Composition, 3 hours, grade of B or higher. If a grade of C is received, the student must pass the Missouri College English Test (MCET) on the UMC campus. Advanced Placement (AP) English Composition credit or International Baccalaureate test credit will be accepted for incoming freshmen admitted to UMC fall semester 2002 and after.

**Math:** Students must complete College Algebra with a grade C- range or higher, or have a minimum ACT math score of 26 or a minimum SAT score of 600.

**Foreign Languages:** Four years of high school work in one foreign language or 12-13 hours of college work in one foreign language.

**Biological, Mathematical, Physical Science:** Math 1310 – Elementary Statistics (C- range grade) **plus** six hours from biological anthropology, biology, chemistry, astronomy, geology, physics, above college algebra level math or computer science.\* One course must include a lab. **Please note:** College Algebra is the prerequisite course for statistics at UMC and UM-St. Louis.

\* Computer Science 1250 – Introduction to Computing.

**Social Science:** Twelve hours are required to include American History or American Government/Introduction to Political Science; Microeconomics; three hours in a behavioral science (psychology, sociology, or anthropology, but not Anthropology 1005); and three hours in any behavioral science, economics, history, or political science, except Pol Sc 3340 – Politics and the Media. **Please note:** Pre-strategic communications majors must complete both microeconomics and macroeconomics.

**Humanistic Studies:** Nine hours are required to include three hours in American or British literature, **plus** two courses from any of the following areas: history or appreciation of art or music, humanities, philosophy, religious studies, non-U.S. civilization or classical studies, history or appreciation of communication, film or theatre.

**In addition, word processing skills are required (40 words per minute). A minimum TOEFL score of 600 is required for students whose native language is not English.**

Nontransferable courses at the School of Journalism include: basic military science, basic physical education, word processing or computer applications, typing or practical arts/vocational technical education courses, photography, public relations, advertising, journalism or mass communication, orientation, professional skills, college preparatory, and no more than three hours maximum of applied music, dance, acting or studio art.

Students are required to take four journalism courses (minimum C- range grades) at UMC prior to admission to the school: J1010 – Careers in Journalism, J1100 – Principle American Journalism, J2100 – News, and J2000 – Cross Culture Journalism. The English composition requirement must be satisfied prior to enrollment in J2000 and J2100. Completion of 15 hours and a minimum 2.75 GPA are required for J1100. Sophomore standing (30 hours) and a minimum 2.8 GPA are required for J2100 and J2000.

The School computes the grade point average for transfer students based on courses accepted toward admission until a MU GPA is established. The School uses the MU GPA for enrollment in the preliminary journalism courses and for acceptance to the sequences.

**Admission is** by emphasis area. Emphasis areas are Convergence Journalism, Magazine Journalism, Newspaper Journalism, Radio-TV Journalism, Strategic Communications and Photojournalism.

The School accepts credit through the College-Level Examination Program (CLEP – subject exams only), Advanced Placement Program (AP), and the International Baccalaureate (IB) program. Regulations apply.

**Credit should be referred for review;**

Please send official transcripts to:

Admissions, 230 Jesse Hall, Columbia, MO 65211.

For advisement and information, contact the Office of Undergraduate Student Affairs in the College of Arts and Sciences, 303 Lucas Hall, 314-516-5501.

**Pre-Law**

Students planning to attend law school must pursue an undergraduate degree of their choice. There is no such thing as a pre-law major. Law schools encourage students to pursue a course of study that includes a broad liberal arts background. The pre-law advisor will assist students in choosing courses that will enhance their analytical and writing skills.

English language and literature courses are virtually indispensable. An awareness of the institutional processes of government obtained through study in political science is needed. Since law is inseparable from historical experience, an acquaintance with American history is important. Students should acquire a knowledge of macro- and microeconomics. Statistics, accounting, and computer science are valuable in understanding special legal subjects and the practice of law. Other recommended courses include formal logic, general psychology, into sociology, ethics, theories of justice, and courses that promote cultural awareness.

The University of Missouri has law schools in Columbia and Kansas City. University of Missouri-St. Louis students may seek assistance in planning an undergraduate program, preparing for the LSAT, and applying to law school in the office of the pre-law adviser. Students should contact the pre-law adviser through the College

of Arts and Sciences, 303 Lucas Hall, (314) 516-5501, early in their undergraduate studies.

### Pre-Health Sciences

Students wishing to enter medical, dental, optometry, or veterinary medicine schools should pursue B.A. or B.S. degrees with majors in the disciplines of their choice, but should take whatever additional courses may be necessary as prerequisites for admission to the professional school.

Since admission requirements vary, students are urged to consult the catalogs of the schools to which they intend to apply. Updated information may be found in:

#### **Medical School Admission Requirements (United States and Canada)\*\***

Phone: 1-202-828-0416; Website: [www.aamc.org](http://www.aamc.org)

#### **American Dental Education Association Official Guide to Dental Schools**

Phone: 1-202-289-7201; Website: [www.adea.org](http://www.adea.org)

#### **Schools and Colleges of Optometry Admission Requirements**

Phone: 1-301-231-5944; Website: [www.opted.org](http://www.opted.org)

#### **Pharmacy School Admission Requirements**

Phone: 1-703-739-2330; Website: [www.aacp.org](http://www.aacp.org)

#### **Veterinary Medical School Admission Requirements in the United States and Canada**

Phone: 1-202-371-9195; Website: [www.aavmc.org/](http://www.aavmc.org/)

**\*\*A copy of the MSAR is also available at the reference desk of the Thomas Jefferson Library.**

#### **Suggested Courses (Pre-Med, Pre-Dental, Pre-Vet)**

Many medical schools recommend the following undergraduate courses:

**Biology:** Biol 1811, Introductory Biology: From Molecules to Organisms; Biology 1821, Introductory Biology: Organisms and the Environment; Biology 2012, Genetics; and additional courses in molecular and/or cell biology.

**Chemistry:** Chem 1111, Introductory Chemistry I; Chem 1121, Introductory Chemistry II; Chem 2612, Organic Chemistry I; 2622, Organic Chemistry II; Chem 2633, Organic Chemistry Lab; and additional courses in organic chemistry and quantitative analysis. (Biochemistry is recommended.)

**Mathematics:** Students should take courses at least through calculus, as appropriate for the major degree, Math 1800, Analytical Geometry & Calculus I (biology, chemistry or physics majors), or Math 1100, Basic Calculus (biology majors). Consult with the Pre-Health Sciences advisor to determine the appropriate course(s).

**Physics:** 8 credit hours or as appropriate for the degree chosen, Physcs 1011 & 1012-Basic Physics (biology majors), OR Physcs 2111, Physics: Mechanics and Heat and Physcs 2112, Physics: Electricity, Magnetism and Optics (chemistry or physics majors). Consult with the Pre-Health and Sciences advisor.

Successful completion of these recommended courses also helps students prepare for required standardized exams.

Since students are not confirmed for admission to professional schools until the science requirements for admission are fulfilled, students should meet the science requirements before the end of the junior year. **To complete these requirements in time, Chem 1111 and 1112, Introductory Chemistry I and II should be taken during the freshman year.**

Students also should take the required national standardized examination before or during the junior year as is appropriate for the exam: The Medical College Admission Test (MCAT) for pre-med students; the Medical College Admission Test or Graduate Record Exam (GRE) for pre-vet students; the Dental Aptitude Test (DAT) for pre-dental students; the Optometry Admission Test (OAT) for pre-optometry students; and the Pharmacy College Admission Test (PCAT), (if required) for pre-pharmacy students. (Note: pre-vet students should consult with their intended veterinary colleges for appropriate test information.)

Each year the number of applicants to health profession schools exceeds the number of available places. Students, therefore, are encouraged to have alternative plans should they not gain entrance. Nursing, laboratory technology, and allied health may be considered as alternative fields.

For more information, testing dates, or pre-health science advising, contact the pre-health professions adviser through the College of Arts and Sciences, 303 Lucas Hall, (314) 516-5501.

### Pre-Optometry

The University of Missouri-St. Louis offers a four-year program of study leading to the doctor of optometry degree; this professional degree is administered by the College of Optometry. It is one of only 16 schools of

optometry in the United States and the only one in the state of Missouri.

Because the University offers the doctor of optometry degree, it is an ideal institution for pre-optometry education. There are three distinct programs available to UM-St. Louis pre-optometry students:

The Department of Biology and the Department of Physics and Astronomy sponsor **3+4 Programs** for the UM-St. Louis College of Optometry. Fourteen hours in Optometry are required to complete the B.S. in Physics degree. In these programs, a student may be admitted to the College of Optometry after completing three years (**90 semester hours**) of study in their respective majors and successful completion of the Optometry Admission Test (OAT).

The undergraduate degree is granted when the student satisfactorily completes the first year of the professional program. One or more of the following conditions must be met in order to qualify for the undergraduate degree. 1) All general education requirements and all requirements for the biology or physics major, except electives, must be completed. 2) Any deficiency in required courses must be remedied with courses taken at UM-St. Louis within three years after entering the College of Optometry. 3) Up to 6 hours from the College of Optometry may be substituted for undergraduate degree in Biology with approval of the Department of Biology. For more information, contact the Department of Biology, (314) 516-6200. 4) 12 hours in Optometry are required to complete the B.S. in Physics degree. For more information, call the Department of Physics and Astronomy at (314) 516-5931.

The Pierre Laclède Honors College and the College of Optometry offer the **Scholars Program**; this program allows a student to complete both the undergraduate and doctor of optometry degrees in seven years. To qualify for this program, a student must be a senior in high school; scored a minimum composite of 27 on the ACT; and be accepted to the UM-St. Louis Pierre Laclède Honors College program. For more information about the Scholars Program, contact the Pierre Laclède Honors College, (314) 516-6870.

**Note:** Math 1800, Analytical Geometry and Calculus I must be taken in the first semester.

For more information on admission requirements for the College of Optometry, please refer to the Optometry section of this Bulletin.

### Pre-Pharmacy

In general, a pharmacy program may consist of 1-3 years of pre-professional study followed by 4-5 years in a professional program. Some institutions, however, offer the entire program at the pharmacy college or school. **Since entrance requirements vary, students should consult the catalog and/or web site of the college or school to which they want to apply.** Missouri has two pharmacy schools: St. Louis College of Pharmacy, and University of Missouri-Kansas City School of Pharmacy. Beginning Fall 2005, the metropolitan area also includes Southern Illinois University Edwardsville School of Pharmacy. Internet links for these and other pharmacy programs in the United States, Canada and abroad can be found at the web site for the American Association of Pharmacy Colleges, [www.aacp.org](http://www.aacp.org).

Before taking any courses for pre-pharmacy, UM-St. Louis students should contact the College of Arts and Sciences, 303 Lucas Hall, for pre-pharmacy information. It is important that students take the correct courses for the pharmacy programs they are seeking. **Generally**, science admission requirements may include **some or all** of the courses listed below (**and possibly other courses**):

**Biol 1811**, Introductory Biology: From Molecules to Organisms  
**Biol 1821**, Introductory Biology: Organisms and the Environment  
**Biol 1131**, Human Physiology and Anatomy I  
**Biol 1141**, Human Physiology and Anatomy II  
**Chem 1111**, Introductory to Chemistry I  
**Chem 1121**, Introductory to Chemistry II  
**Chem 2612**, Organic Chemistry I  
**Chem 2622**, Organic Chemistry II  
**Chem 2633**, Organic chemistry Laboratory  
**Math 1800**, Analytical Geometry and Calculus I  
**Physcs 1011**, Basic Physics  
**Physcs 1012**, Basic Physics

Usually, pre-pharmacy requirements also include courses in **English composition, humanities, social and behavioral sciences**. The specific pharmacy school or college determines these requirements. In addition, many pharmacy institutions require applicants to take the Pharmacy College Admission Test (PCAT). Detailed information about the PCAT is available online at [www.pcatweb.info](http://www.pcatweb.info). For additional information about application deadlines and procedures, gpa requirements, and letters of recommendation, students should consult the catalogs and/or web sites for the programs they intend to apply.

Pre-Pharmacy advising and Information is available through the Office of Undergraduate Student Affairs in the College of Arts and Sciences, 303 Lucas Hall, 314-516-5501.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Department of Psychology

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### Department of Psychology Home Page

#### Faculty

**Robert J. Calsyn**, Professor, Chairperson  
Ph.D., Northwestern University

**Gary K. Burger**, Professor Emeritus  
Ph.D., Loyola University

**James A. Breugh**, Professor+  
Ph.D., Ohio State University

**Michael Harris**, Professor+  
Ph.D., University of Illinois-Chicago

**Robert N. Harris**, Clinical Professor  
Ph.D., University of Kansas

**Edmund S. Howe**, Professor Emeritus  
Ph.D., University of London

**Alan G. Krasnoff**, Professor Emeritus  
Ph.D., University of Texas

**Samuel J. Marwit**, Professor Emeritus  
Ph.D., State University of New York at Buffalo

**Miles L. Patterson**, Professor,  
Ph.D., Northwestern University

**Jayne E. Stake**, Professor Emerita  
Ph.D., Arizona State University

**George T. Taylor**, Professor, Director, Doctoral Program in Behavioral Neuroscience  
Ph.D., University of New Mexico

**Brian Vandenberg**, Professor  
Ph.D., University of Rochester

**Dominic J. Zerbolio, Jr.**, Professor Emeritus  
Ph.D., Michigan State University

**Carl Bassi**, Associate Professor'  
Ph.D., Vanderbilt University

**Steven E. Bruce**, Associate Professor,  
Ph.D., Virginia Commonwealth University

**Michael G. Griffin**, Associate Professor, Director, Center for Trauma Recovery  
Ph.D., University of Missouri-St. Louis

**Therese M. Macan**, Associate Professor, Director, Doctoral Program in Industrial/ Organizational Psychology  
Ph.D., Rice University

**Thomas Meuser**, Associate Professor and Director of Gerontology,  
Ph.D., University of Missouri-St. Louis

**Jennifer Siciliani**, Associate Teaching Professor, Director, Undergraduate Advising  
Ph.D., University of Tennessee-Knoxville

**Ann M. Steffen**, Associate Professor, Director, Doctoral Program in Clinical Psychology  
Ph.D., Indiana University

**Mark E. Tubbs**, Associate Professor,  
Ph.D., University of Houston

**Barbara Bucur**, Assistant Professor  
Ph.D., University of Akron

**Thomas D. Fletcher**, Assistant Professor  
Ph.D., Old Dominion University

**Tara Galovski**, Assistant Professor  
Ph.D., University of Albany-State University Of New York

**Laurie A. Greco**, Assistant Professor  
Ph.D., West Virginia University

**Stephanie Merritt**, Assistant Professor  
Ph.D., Michigan State University

**Robert H. Paul**, Assistant Professor  
Ph.D., University of Oklahoma Health Sciences Center

**Zoë Peterson**, Assistant Professor  
Ph.D., University of Kansas

**Matthew J. Taylor**, Assistant Professor  
Ph.D., University of Missouri-St. Louis

**Kamila S. White**, Assistant Professor  
Ph.D., Virginia Commonwealth University

**Dyan W. Harper**, Teaching Professor,  
Ph.D., Northern Illinois University

**Gary A. Morse**, Adjunct Professor  
Ph.D., University of Missouri-St. Louis

**Larry O'Leary**, Adjunct Associate Professor  
Ph.D., Saint Louis University

**John W. Rohrbaugh**, Adjunct Associate Professor  
Ph.D., University of Illinois-Urbana Champaign

**David E. Smith**, Adjunct Associate Professor  
Ph.D., Colorado State University

**Alene S. Becker**, Adjunct Assistant Professor  
Ph.D., University of Missouri-St. Louis

**Lee Konzak**, Adjunct Assistant Professor  
Ph.D., University of Missouri-St. Louis

**Sandra K. Seigel**, Adjunct Assistant Professor  
Ph.D., Saint Louis University

**Mary K. Suszko**, Adjunct Assistant Professor  
Ph.D., University of Missouri-St. Louis

**David F. Wozniak**, Adjunct Assistant Professor  
Ph.D., Washington University

+ Primary appointment in the College of Business Administration

' Primary appointment in College of Optometry

# Primary appointment in Kathy J. Weinman Children's  
Advocacy Centre

## General Information

### Psychology Undergraduate Advising Office

Undergraduate psychology majors and other students interested in majoring or minoring in psychology are encouraged to visit the Psychology Undergraduate Advising Office (110 Stadler) to receive specific information on degree requirements and course offerings, discuss questions about career options, and receive information about graduate work in Psychology. Students will minimize waiting time and will be assured one-to-one attention from an advisor by calling (314) 516-4561 to schedule an appointment ahead of time. Office hours for the Psychology Undergraduate Advising office as well as additional information for psychology majors can be obtained by e-mailing : [psy\\_advising@umsl.edu](mailto:psy_advising@umsl.edu).

### Career Outlook

The undergraduate major in Psychology can provide the foundation for further training in psychology at the graduate level, provide the background necessary for graduate training in other fields such as social work and counseling, or provide the liberal arts background necessary for entry level positions in many fields such as business, communication, and some human service and health care positions. For more career information please schedule an appointment with an advisor in the Psychology Undergraduate Advising Office (Room 110 Stadler, [psy\\_advising@umsl.edu](mailto:psy_advising@umsl.edu)). To function specifically as a psychologist, a graduate degree is required. Students with such an interest should plan for this additional training. Much of this preparation must take place during the student's undergraduate studies. For additional information, visit the [American Psychological Association website](#).

### Facilities.

The department has several animal and human experimental laboratories, equipped with a wide range of psychophysiological equipment. The department also operates three facilities (Community Psychological Service, the Center for Trauma Recovery, and Children's Advocacy Services of Greater St. Louis) which provide training opportunities for the doctoral students in the psychology program as well as providing psychological assessment and treatment services for citizens in the region.

## Undergraduate Programs: Overview

**Bachelors Degree.** The Psychology department offers work leading to the Bachelor of Arts (BA) degree in Psychology.

**Minor in Psychology.** The department offers a minor in Psychology to students who have a special interest in this field but wish to major in another discipline.

**2+3 B.A. in Psychology and M.S. in Gerontology**

This is an accelerated program which allows students to receive a bachelors degree in psychology and masters degree in gerontology after completing 138 credit hours in a carefully prescribed program. A full description of program requirements and procedures is available from the Psychology department or from the Gerontology Program office.

**Graduate Programs: Overview**

**Masters Degree.**

The department offers a terminal M.A. in General Psychology.

**Doctoral Degrees.**

The department offers three options within its Ph.D. Program: Clinical Psychology, Behavioral Neuroscience, and Industrial/Organizational Psychology.

**Graduate Certificate in Trauma Studies.**

This is an 18 credit hour graduate certificate program.

**Clinical Psychology Respecialization-Advanced Graduate Certificate Program.**

This program is designed for individuals who already have a doctorate in psychology who wish to receive specialty training in clinical psychology.

**Undergraduate Programs in Depth**

**General Education Requirements**

Majors must satisfy the university and college General Education Requirements. Courses in Psychology may be used to meet the social sciences requirement.

**Requirements for the Minor**

Candidates must complete a minimum of 15 hours of courses taught by or cross-listed with the Psychology Department, including at least 6 hours at the 3000 or 4000 level. Candidates must have a cumulative grade point average of 2.0 or better in the minor. Psychology courses taken on a satisfactory/unsatisfactory basis may not be applied to the minor.

**Bachelor of Arts in Psychology**

At least 31, but no more than 45, hours must be completed in courses taught by or cross listed with the Psychology Department. Candidates must have a cumulative grade point average of 2.0 or better in the major. Psychology courses taken on a satisfactory/ unsatisfactory basis may not be applied to the major.

The following courses (13 credit hours) are required:

**Psych 1000**, Careers in Psychology

**Psych 1003**, General Psychology

**Psych 2201**, Psychological Statistics

**Psych 2219**, Research Methods

**Psych 4999**, Integrated Psychology

In addition to the required courses, at least one class must be selected from the classes listed for each of the following three core areas of psychology.

Biopsychology/Cognitive area (3 credit hours):

**Psych 2211**, Introduction to Biological Psychology or

**Psych 2212**, Principles of Learning

Clinical area (3 credit hours):

**Psych 2216**, Personality Theory or

**Psych 2245**, Abnormal Psychology

Social/Development area (3 credit hours):

**Psych 2160**, Social Psych or

**Psych 2270**, Developmental: Infant, Child Adolescent or

**Psych 2272**, Developmental: Adulthood & Aging

Finally, at least three other courses totaling a minimum of nine credit hours must be taken at the 3000-4000

level.

**Note:** Students must satisfy the current University mathematical skills requirement before taking Psych 2201, Psychological Statistics. Psych 2201 is a prerequisite for Psych 2219, and hence, Psych 2201 must be completed with a grade of C- or higher prior to enrollment in Psych 2219.

Also, multiple enrollments in Psych 3390, Directed Studies, count as no more than one advanced course. No more than six hours of independent study courses (Psych 3295, Selected Projects in Field Placement; and Psych 3390, Directed Studies) may be counted toward the 31- hour minimum needed for graduation.

#### **Graduate School Preparation**

In addition to the required courses listed above, students interested in applying to graduate school in Psychology are strongly encouraged to become involved in a research project with a psychology faculty member by enrolling in Psych 3390, Directed Studies. These positions are available on a limited and competitive basis. See the Psychology Undergraduate Advising office for more information on such positions.

Students who plan to apply to graduate school in clinical psychology, counseling, or social work should also enroll in Psych 3295, Field Placement, to gain experience in a "helping role" before apply to graduate programs in one of the human services professions.

### **Graduate Programs in Depth**

#### **Admission Requirements**

In addition to meeting the general admission requirements of the Graduate School, applicants should have completed undergraduate courses in general psychology, psychological statistics, and research methods. Each doctoral program has additional admission requirements specific to the program.

#### **Applications:**

Each program has independent deadlines for completed applications. They are as follows:

#### **M.A. in General Psychology**

February 1

#### **Ph.D. in Psychology:**

Clinical Psychology--January 15

Industrial/Organizational Psychology--February 1

Behavioral Neuroscience--February 1

#### **Teaching assistantships.**

Stipends for teaching and research assistantships are available for the doctoral programs only.

#### **Description of Master of Arts in Psychology**

The psychology department at the University of Missouri-St. Louis devotes most of its graduate level training to its three doctoral programs. However, the department does offer a flexible program of studies leading to the Master of Arts degree in general psychology. Only a few students are admitted to this program each year. Course work is possible, depending on student demand and course availability in Behavioral Neuroscience and Industrial/Organizational Psychology. The M.A. degree does not constitute a license to practice in Missouri or elsewhere as a professional psychologist. The M.A. program does not offer course work in Counseling or Clinical Psychology.

There is no thesis or language requirement. Part-time or full-time enrollment is permissible. The M.A. degree is a terminal degree and is separate from the Ph.D. program in Psychology.

The M.A. in Psychology requires a total of 32 semester hours of course work in Behavioral neuroscience or 45 semester hours of course work in Industrial/Organizational Psychology, depending on the option chosen. Before applying for admission to the Masters Program, interested applicants are encouraged to discuss their interest with either the Director of the Behavioral Neuroscience program or the Director of the Industrial/Organizational Psychology program.

All students in the masters program must take the course work prescribed by their emphasis area. All programs of study for M.A. students require the approval of the director of the Behavioral Neuroscience program or director of the Industrial/Organization program.

#### **Description of Ph.D. Programs/Options**

There are three distinct programs: Clinical Psychology, Behavioral Neuroscience, and Industrial/Organizational Psychology. Each has its own specific curricular and research requirements. Handouts describing these requirements are available from the department on request. The following briefly describes each program.

#### **Clinical Psychology.**

The Clinical Psychology program has been fully accredited by the American Psychological Association since 1977 and is patterned upon the scientist-practitioner model of clinical training. The Clinical Psychology program requires five years of full-time study. Students are not considered for admission on a part-time basis. Through the medium of courses, practicum, and research experiences, this emphasis area prepares clinical psychologists for careers in research, teaching, and clinical practice.

Students in the Clinical Psychology program participate for three years in the Psychology Department's Community Psychological Service. This facility provides psychological services to the public and consultation to outside agencies. Students also receive clinical experience in clerkships and during a full-time year-long internship. Research requirements include an initial independent research project, a major critical review of research in a specialty area, and a dissertation.

#### **Behavioral Neuroscience.**

The Behavioral Neuroscience program provides opportunities for study, research, and training in various areas including psychophysiology, psychopharmacology, neuroendocrinology, cognitive neuroscience, and neuropsychology. This program prepares students for research careers in academia or industry, such as pharmaceutical firms and medical schools. Full-time enrollment is required.

#### **Industrial/Organizational Psychology.**

The industrial/organizational psychology program is offered in cooperation with selected faculty from the College of Business to prepare students for careers in industry or academia. This program embraces the scientist practitioner model and provides a balanced training in I/O. This emphasis provides "industrial" training in areas such as personnel selection, training, and test development/validation, as well as "organizational" training in areas such as work motivation, leadership, and group processes. Research and other training experiences in various settings are also incorporated.

### **Graduate Certificate Programs**

#### **Clinical Psychology Respecialization-Advanced Graduate Certificate Program**

This program is designed for graduates of accredited doctoral programs in psychology who wish to receive training in the specialty field of clinical psychology. Respecialization students are trained within the context of the UM-St. Louis Clinical Psychology Doctoral Program, which is accredited by the American Psychological Association. The program provides an integrated sequence of training experiences, including didactic course work and practicum placements. Core graduate-level psychology educational requirements not completed elsewhere are included in the respecialization student's course of study.

#### **Graduate Certificate in Trauma Studies**

The graduate certificate is awarded upon the completion of 18 credit hours of coursework on the topic of trauma studies. No more than nine hours of graduate level independent research or fieldwork may be used for the certificate. The coursework for the certificate must be taken in at least two departments and may include no more than three hours at the undergraduate 3000 or 4000 level.

### **Course Descriptions**

Students who have earned 24 or more semester hours of credit at any accredited post-secondary institutions(s) before the start of the fall 2002 semester must meet the general education requirements stipulated in the UM-St Louis 2001-2002 Bulletin. The following courses fulfill the Social Sciences and in that Bulletin: 1003, 1268, 2102, 2140, 2160, 2161, 2200, 2201, 2211, 2212, 2216, 2219, 2222, 2225, 2230, 2232, 2245, 2256, 2270, 2272, 3295, 3302, 3316, 3317, 3318, 3320, 3340, 3345, 3346, 4235, 4300, 4305, 4306, 4307, 4308, 4310, 4311, 4312, 4314, 4330, 4349, 4356, 4357, 4361, 4365, 4373, 4374, 4375, 4376, 4380, 4392, 4398.

#### **1000 Careers in Psychology (1)**

This course is an orientation to the field of psychology for majors and for students who are considering declaring the major. Students will be engaged in activities that will help them to develop and identify their professional goals, learn about the various specialties and careers available within the field of psychology, understand the education and skills necessary for various careers, learn the requirements for a psychology major, become familiar with minors that are available at UMSTL, encourage them to think about a possible choice of minor, and acquaint them with some of the UMSTL Psychology faculty and specialties

#### **1003 General Psychology (3) [SS]**

A broad introductory survey of the general principles of human behavior.

#### **1268 Human Growth and Behavior (3) [SS]**

Prerequisite: Psych 1003. A survey course, designed for non-majors, of development over the lifespan, with an emphasis on the developmental tasks and hazards of each age period. Majors in psychology and students planning to pursue a career in psychology research, teaching, or practice are strongly encouraged to take

Psych 2270 and/or Psych 2272 instead of this course.

**2140 Female Sexuality (3)**

Same as WGST 2140. Prerequisites: Psych 1003, or Bio 1012, or its equivalent. This course will present a biological-psychological orientation toward the study of female sexuality. Topics include: sexual anatomy, hormonal influences on sexual behavior, psychosexual development, sexual attraction and relationships, sexual response and dysfunction, menstruation, pregnancy, menopause, reproductive health issues, and social issues in sexuality.

**2160 Social Psychology (3)**

Same as Sociol 2160. Prerequisite: Psych 1003 or Sociol 1010. Study of interaction between individuals and their social environment. Examination of basic principles, concepts, and methods.

**2161 Helping Relationships (3)**

Prerequisites: Psych 1003 and consent of instructor. Exploration of the basic elements contributing to effective helping skills. Course assignments include keeping a journal, writing papers, and a final exam. Readings, discussion, and guided experiences will be used to instill active listening and communication skills. Ethics of helping relationships will be emphasized.

**2170 Aging in America: Concepts and Controversies (3)**

Same as Geron 2170, ID 2170, Social Welfare 2170, and Sociol 2170. This course examines the major theoretical and service issues connected to the study of older adults and their families, using multidisciplinary perspectives. Students are provided with an introduction to the field of aging through an examination of current social issues and controversies. This course emphasizes student involvement through class discussion, and is appropriate for students in the arts and sciences, business, communication, education, and nursing.

**2200 Drugs and Behavior (3)**

Prerequisites: Psych 1003 and three other hours in psychology or biology. The course is designed to provide an introduction to the relationship between drugs and behavior. The emphasis will be on psychoactive drugs, alcohol, nicotine, as well as drug-like substances produced naturally in the body.

**2201 Psychological Statistics (4)**

(With Laboratory) Prerequisites: Psych 1003 and satisfaction of the university's mathematical skills requirement. Statistical methods in psychological measurement and analysis of psychological data. Frequency distribution analysis, sampling, test of significance, and correlation methods.

**2205 Human Sexuality: Psychological Perspectives (3)**

Prerequisites: Psych 1003: General Psychology This course is a comprehensive overview of human sexuality from the standpoint of the behavioral science of psychology. This course includes a study of sexual physiology and anatomy, sex differences, sexual orientation, interpersonal and intrapersonal aspects of human sexuality, classification and treatment of sexual dysfunction and sexual disorders, and the methods employed for the scientific examination of human sexual behavior.

**2211 Introduction to Biological Psychology (3)**

Prerequisites: Psych 1003, Biol 1012 and 3 additional hours in Psychology or Biology. A fundamental course designed to introduce psychology students to the new findings for the biological bases of human behavior.

**2212 Principles of Learning (3)**

Prerequisite: Psych 1003. A consideration of critical findings in learning.

**2216 Personality Theory (3)**

Prerequisite: Six hours of psychology. Structural and dynamic aspects of the human personality considered in the context of selected theoretical systems.

**2219 Research Methods (3)**

(With laboratory.) Prerequisite: Psych 2201. Research methods and analysis techniques used in psychological inquiry. Special emphasis placed on the logic of research design. Includes laboratory study of, and analysis of, selected methods.

**2222 Group Processes in Organizations (3)**

Prerequisite: Psych 1003 or Bus Ad 3600. Topics include theory, research, and practice in coordination, conflict, and decision making in groups and organizations, as well as the role of influence, power, and leadership effectiveness in understanding interpersonal and group relations.

**2225 Behavior Modification (3)**

Prerequisite: Nine hours of psychology or consent of instructor. Methods, applications, and ethics of the use of behavior theory (primarily Skinner's operant conditioning) to the control of human behavior in a variety of settings including mental institutions, grade schools, universities, individual treatment, and communal living.

**2230 Psychology of Women (3)**

Same as WGST 2230 Prerequisite: Psych 1003. Evaluation of psychological theories and research regarding physiological, cognitive, and personality sex differences, female problems in adjustment, and clinical interventions for women

**2232 Psychology of Victims (3)**

Same as WGST 2232. Prerequisite: Psych 1003. A review of the effects of crime, violence, natural disasters, and other traumas on psychological functioning with attention to the relationship between gender and victimization. Prevention and therapy techniques will also be discussed.

**2245 Abnormal Psychology (3)**

Prerequisite: Psych 1003. Introduction to major symptom complexes, theories of etiology, and treatment of behavior disorders.

**2270 Developmental Psychology: Infancy, Childhood & Adolescence (3)**

Prerequisite: Psych 1003. The theory and research surrounding cognitive, social, emotional, and physical development from conception through adolescence. Intended for students with career interests in the study, education, and/or treatment of children.

**2272 Developmental Psychology: Adulthood and Aging (3)**

Same as Geron 4280. Prerequisite: Psych 1003. Personality, social, and physiological development from the onset of early adulthood through maturity and old age.

**2280 Psychology of Death and Dying (3)**

Same as Ger 2280. Prerequisites: Psych 1003. A beginning exploration of end-of-life issues.

**2285 American Culture & Minority Mental Health (3)**

Prerequisites: Psych 1003. Provides an examination of the relationship between American culture and mental health. The focus is on the lives of American minority groups, with specific attention given to how racism, prejudice, and minority status currently reveal themselves within a mental health framework. An eclectic, multidisciplinary approach that draws from clinical and social psychology will be utilized.

**3256 Environmental Psychology (3)**

Prerequisite: Psych 2160 or Sociol 2160. Analysis of environmental influences on behavior and man's influence, in turn, on the environment. Topics will include a consideration of both individual processes relating to the environment (such as the perception, evaluation, and adaptation to the environment) and social processes relating to the environment (such as privacy, territoriality, and crowding).

**3295 Selected Projects in Field Placement (3)**

Prerequisites: Junior standing, fifteen hours of psychology, and departmental approval. Selected options in field work placement experiences in various local agencies with training and supervision by faculty. May be repeated once for credit.

**3302 Computers in Psychology (3)**

Prerequisites: Nine hours of psychology including Psych 2201 and junior or senior standing. The course is organized around computer applications in the behavioral sciences for the Macintosh machine. The goals for the course include familiarization with (1) MAC environment to prepare the student for the explosion of computer applications now and in the future, (2) the hardware and software products available for the working psychologist, and (3) the software programs of choice in the field through hands-on, individual use of the MAC. Some modest level of computer (MAC, PC, or mainframe) experience is recommended.

**3316 Fundamentals of Leadership (3)**

Prerequisites: 9 hours of Psychology or consent of instructor. This course addresses concepts and methods for developing leadership skills in work and everyday settings. Contemporary approaches to leadership development are reviewed in relation to psychological and organizational theory. This course is designed to be relevant to the wide range of leadership opportunities that arise in work and daily life. Experiential exercises are used to help students discover and develop new leadership skills.

**3317 Social Psychology of Conflict and Negotiation (3)**

Same as Sociol 3317. Prerequisite: nine hours of psychology or nine (9) hours of sociology, including Psych 2160 or Sociol 2160. The purpose of this course is to understand how social psychological phenomena affect the processes and outcomes of negotiation and other forms of social conflict. The course is designed to be relevant to the broad spectrum of conflict situations people face in their work and daily lives. A basic premise of this course is that while analytical skills are needed to discover solutions to social problems, negotiation skills are needed in order for these solutions to be accepted and implemented.

**3318 Industrial and Organizational Psychology (3)**

Same as Bus Ad 3623. Prerequisites: Psych 2201 or Bus Ad 3600. This course introduces the student to

psychological research and theories pertaining to human behavior in the work setting. Topics covered include: selection, performance appraisal, training, leadership, motivation, job satisfaction, and organizational design.

**3320 Personnel Assessment (3)**

Prerequisite: Psych 3318 or Bus Ad 3621. This course will provide an in-depth study of several topics in the area of personnel psychology. Consideration will be given to issues such as assessment centers, employment interviewing, personnel appraisal, employment test validity, and legal issues relevant to personnel assessment.

**3340 Clinical Problems of Childhood (3)**

Prerequisites: A total of twelve hours of psychology including Psych 1003 and Psych 2270. This course will address the clinical disorders and difficulties of children and the treatment of these disorders. Topics that will be addressed include autism, childhood schizophrenia, behavior disorders, drug abuse, enuresis, encopresis, and childhood co- compulsive and phobic reactions. Treatments designed for specific use with children, including behavioral, drug, and community mental health approaches will be addressed.

**3345 Lesbian Psychology (3)**

Same as WGST 3345 Prerequisites: Junior standing, 9 hours of psychology or consent of instructor. Explores psychological, social, cultural, and historical aspects of lesbianism. Topics include development of lesbian identity historically and individually, causes of sexual orientation, coming out, relationships and friendship, sexuality, roles, prejudice and discrimination, race and class, legal and economic issues, politics and feminism, health, and community.

**3346 Introduction to Clinical Psychology (3)**

Prerequisites: Nine hours of Psychology, including Psych 2216 or Psych 2245. A conceptual framework for research, description, and understanding of clinical phenomena. Assessment, interviewing, the clinical use of tests, and psychological approaches to treatment.

**3390 Directed Studies (1-5)**

Prerequisite: Consent of instructor. Directed reading and research. May be repeated for a maximum total of ten hours.

**4235 Community Psychology (3)**

Prerequisite: Psych 1003. The analysis of psychological problems in terms of the social and situational forces that produce them. Community psychology analyzes the situational problems in living. Epidemiology of mental illness; group, family, and crisis intervention; mental health-care delivery; program evaluation and demonstration project research; role of psychologist as consultant and change agent; and utilization of nonprofessional manpower

**4300 Introduction to Psychopharmacology: Drugs and Mental Illness (3)**

Prerequisites: Psych 2211 or Psych 2200, and Psych 2240. The course is designed to provide an introduction to drugs used to treat anxiety disorders, major depression, schizophrenia, and other psychopathologies. The emphasis will be on understanding neural mechanisms related to psychological disorders and to the effectiveness of current drug treatments.

**4301 Advanced Statistics and Experimental Design (3)**

Prerequisites: Twelve hours of psychology, including Psych 2201. Statistical methods which are particularly useful in psychological research and the design of experiments appropriate to these methods.

**4305 Cognitive Development (3)**

Prerequisites: Junior standing and Psych 2270, or consent of instructor. Data and theory concerned with how children's thinking changes over time. Discussion will include domain-general versus domain-specific theories, social and cultural influences on cognition, gains in memory, attention, problem solving, and metacognition, conceptual development, children's naive theories, schooling, and various definitions and measures of intelligence.

**4306 Social Development (3)**

Prerequisites: Junior standing and Psych 2270, or consent of instructor. Data and theory concerned with social behavior in infants, preschoolers, and school-aged children. Discussion will include emotional regulation, measurement and nature of temperament, formation and maintenance of attachment relationships, sex-role development, theories of aggression and the effects of socializing agents such as family, peers, media, and culture on development.

**4307 Psychology of Oppression (3)**

Prerequisite: Nine (9) hours of psychology. Surveys the concept of oppression and psychology's contribution to an understanding of this human reality. Definitions and the assumptions, liabilities, and contributions of specific theories of oppression are considered. Finally, the course examines the psychological and mental health consequences of the individual's experience of oppression.

**4308 African American Psychology (3)**

Prerequisites: 9 hours of Psychology or 6 hours of Black Studies minor, or consent of instructor. Provides an overview of the emergence of contemporary African American Psychology. It explores the implications of a psychological perspective specific to African Americans. Traditional research theories are explored from a historical perspective. African American identity, socialization, personality, cognitive development, and mental health are discussed. Contemporary issues which impact African American behaviors and attitudes are also addressed.

**4310 Motivation Theory (3)**

Prerequisites: Junior standing and twelve hours of Psychology, or consent of instructor. Survey of current theoretical material in the area of motivation.

**4311 Psychology of Nonverbal Behavior (3)**

Prerequisite: Psych 2160 or Sociol 2160. Psychological perspective on the role of nonverbal behavior in social settings. Primary concerns of the course will include an analysis of a) functions of nonverbal behavior (e.g., communication, intimacy exchange, control), b) factors influencing nonverbal expression (e.g., culture, personality, relationships), and c) various theoretical views on nonverbal behavior and communication. Applications to various problems and settings in everyday life will also be pursued.

**4312 Social Cognition (3)**

Prerequisites: Psych 2160 or Sociol 2160. Research and theory on the role of cognitive processes in social behavior. Topics include attitudes and attitude change, social inference, schemas, and cognitive links to behavior and affect.

**4314 Behavioral Neuroscience (3)**

Prerequisites: 9 hours of Psych and/or Biology: Psych 2211 is recommended but not required. A neuroscience course focusing on behavioral outcomes of brain function and dysfunction. Emphasis will be on modern research methods with animal models and humans. Topics discussed will include the classic findings in the field, but the emphasis will be on recent findings from human neuropsychology, neuroimaging, cognitive neuroscience, neuropharmacology and neuroendocrinology.

**4330 Hormones, the Brain and Behavior (3)**

Prerequisites: 9 hours of Psychology or Biology, including at least one of the following: either Psych. 2200, Psych. 2211, Psych. 4300 or Psych 4314 or permission of instructor. Can be taken for graduate credit. It is now clear that the endocrine system influences a notable range of reproductive **and** non-reproductive behaviors including mood, stress responses, cognition, memory, violence, attachment, aging, weight control and athletic prowess. Emphasis of the class is on hormonal contribution to reproductive and non-reproductive behaviors and sex steroids influences on the brain from prenatal life to old age as well as their contribution to gender behavioral differences.

**4349 Human Learning and Memory (3)**

Prerequisites: Nine hours of psychology or consent of instructor. A survey of contemporary research, theory, and facts pertaining to the acquisition, retention, and forgetting of information.

**4356 Thinking and Cognition (3)**

Prerequisites: Nine hours of psychology or consent of instructor. An introduction to modern analytical approaches to the psychology of thinking: problem solving, reasoning, categorizing, judgment, attention, and consciousness. Particular attention is paid to the mental structures and operations involved in the encoding, abstraction, representation, transformation, and retrieval of knowledge.

**4357 Psychology of Learning (3)**

(With laboratory.) Prerequisite: Psych 2219. Major theoretical positions and experimental conditions of learning. Includes laboratory study of selected problems.

**4361 History and Systems of Psychology (3)**

Prerequisites: At least fifteen hours of psychology. The course should be taken no sooner than the winter term of the junior year. Historical antecedents of contemporary psychology, including a survey of systems and schools of psychology.

**4365 Psychological Tests and Measurements (3)**

Prerequisites: Psych 2201 and Psych 2219, or consent of instructor. Survey of psychological tests and principles of reliability, validity, test construction, and test evaluation.

**4373 Psychology of Aging (3)**

Same as Geron 4373. Prerequisite: Nine hours of psychology or consent of instructor. This course focuses on the developmental changes associated with aging including sensation, memory, emotions, and attitudes.

**4374 Introduction to Clinical NeuroPsychology (3)**

Prerequisite: Nine hours of psychology. A survey of neuropsychological findings concerning relationships between brain and behavior. Topics will include brain function, neuroanatomy, neurological syndromes, and methods of neuropsychological assessment.

**4375 The Social Psychology of Disabilities (3)**

Prerequisite: Sociol 2160 or Psych 2160 or consent of instructor. Same as Sociol 4375. A social psychological and micro-sociological examination of attitudes and behaviors affecting persons with disabilities. Topics include stigma and empowerment, adaptive behaviors, stereotypes and prejudices, and images of disabilities in popular culture and mythology. The course will address the experience of disability and its social consequences for the lives of persons with disabilities.

**4376 Mental Health and Aging (3)**

Prerequisites: 9 hours of psychology, graduate standing, or consent of instructor. Same as Geron 4376 and Soc Wk 4376. (MSW students normally take all foundation courses prior to enrolling in this course.) A survey of recent theory and research in mental health issues for older populations. The primary focus is on major psychological disorders prevalent among the elderly and on treatment approaches for elders.

**4380 Psychology of Death, Dying, and End-of-Life Concerns (3)**

Prerequisite: Nine hours of psychology. Same as Geron 4380. This course will address the psychological aspects of and current research on, a variety of end-of-life issues, including death attitudes, funeral practices, ethics, grief theory, family communication practices, health care system approaches.

**4392 Selected Topics in Psychology (1-3)**

Prerequisites: Twelve hours of psychology and consent of instructor. A seminar of selected issues and methods in psychology. May be repeated once for credit.

**4398 Child Maltreatment: A Multidisciplinary Approach (3)**

Same as Soc Wk 4398. Focuses on clinical aspects of child abuse with attention to identification, reporting, intervention, and prevention. Perspectives from the disciplines of psychology and social work are provided.

**4399 Seminar: Child Sexual Abuse (1)**

Same as Soc Wk 4399. Provides intensive study in interviewing, legal issues, assessment, medial issues, and therapeutic intervention in cases of child sexual abuse.

**4999 Integrated Psychology (2)**

**Prerequisites: This course is restricted to psychology majors who plan to graduate during the current semester or the next.** This capstone course serves as a review of the primary fields of psychology. It will be taken typically during the last semester prior to graduation. An advanced general psychology textbook will guide the class through important contemporary topics in behavioral neuroscience, learning & memory, cognition, psychopathologies & their treatments, developmental and social psychology. Students will take the required major field test in psychology that will serve as the final exam for the course.

**5407 Psychopharmacology (3)**

Prerequisite: 12 units of graduate-level psychology courses and consent of instructor. An examination of the effects of drugs on the brain and on behavior. Primary emphasis is on those drugs used in the treatment of affective disorders, schizophrenia, and anxiety.

**5461 Seminar: Learning (3)**

A critical examination of contemporary problems in learning.

**5465 Seminar: Physiological Psychology (3)**

A critical examination of contemporary problems in physiological psychology.

**5468 Seminar: Cognitive Processes (3)**

Prerequisite: Admittance to doctoral program in psychology or consent of instructor. A critical examination of contemporary problems in cognitive processes

**5475 Introduction to Evaluation Research Methods (3)**

Same as Sociol 5475, P P Ad 6750, and Crimin 5475. Prerequisite: At least one course in research design and statistics at the graduate level. A comparative study of research strategies with regard to data sources, data collection, and modes of analysis that are appropriate for program evaluation research. Attention is given to observational, survey, and quasi-experimental methodologies.

**5610 Mechanisms of Aging I: The Aging Body (1)**

Prerequisite: Admission to Clinical Psychology program or permission of the instructor.. A critical examination of the clinical-experimental literature on psychopathology. Etiologies of cognitive/affective functions and  
Prerequisites: Graduate standing and Biol 1102 or equivalent. Same as Soc Wk 5610 and Geron 5610. (MSW students normally take all foundation courses prior to enrolling in this course.) Introduces students with a

social sciences/humanities background to the normal changes in the biology and chemistry of the aging human body and how these changes affect behavior.

**5611 Mechanisms of Aging II: The Aging Brain (1)**

Prerequisites: Geron 5610 or Soc Wk 5610 or Psych 5610 or equivalent or consent of instructor. Same as Soc Wk 5611 and Geron 5611. (MSW students normally take all foundation courses prior to enrolling in this course.) Provides students with a social sciences/humanities background a basic introduction to the biology and chemistry of the aging human brain and nervous system and how these systems impact behavior.

**5612 Mechanisms of Aging III: Diseases of Aging (1)**

Prerequisites: Geron 5610 and Geron 5611 or Soc Wk 5610 and 5611 or Psych 5610 and Psych 5611 or equivalent or consent of instructor. Same as Soc Wk 5612 and Geron 5612. (MSW students normally take all foundation courses prior to enrolling in this course.) Provides students with a social sciences/humanities background with information on how diseases associated with aging exacerbate the effects of aging on the human body, mind, and behavior.

**6441 Aging and Health Behavior (3)**

Same as Geron 6441 and Nurse 6441. Prerequisites: Graduate standing. This course examines sociocultural influences on health care practices of older adults. The role of social support and other social resources in the health behavior of older adults is emphasized. Topics include self care decisions, formal service utilization, family caregiving, and planned interventions for older adults.

**6444 Clinical Geropsychology (3)**

Prerequisite: Graduate standing or consent of instructor. This course examines major predictors of Psychosocial functioning in older adults. The emphasis is on assessment and research methods appropriate to studying developmental issues in late life. Topics include interpersonal relationships, mental health, and a critique of interventions designed to increase life satisfaction.

**6448 Multicultural Issues in Clinical Psychology (3)**

Prerequisite: Admission to the doctoral program in Clinical Psychology or consent of instructor. A survey of theoretical perspectives utilized in the treatment of various cultural groups. Their relationship to and implications for the treatment of members of various cultural groups will be explored. Strategies and ethical concerns in diagnosis, test interpretation, and treatment are considered.

**6466 Seminar: Developmental Psychology (3)**

A critical examination of contemporary problems in developmental psychology.

**7403 Psychopathology (3)**

Prerequisite: Admission to Clinical Psychology program or permission of the instructor. A critical examination of the clinical-experimental literature on psychopathology. Etiologies of cognitive/affective functions and dysfunctions are explored, and implications for therapeutic intervention are considered.

**7404 Introduction to Clinical Assessment I (4)**

Prerequisite: Admission to Clinical Psychology program. Fundamentals of clinical assessment with emphasis on interviewing and the measurement of cognitive functioning. This course includes a laboratory.

**7405 History and Systems in Psychology (3)**

Prerequisite: Admission to Clinical Psychology program or consent of the instructor. A comprehensive overview of the history of psychology with an emphasis on the systems of thought that have shaped contemporary psychological theory and research.

**7406 Introduction to Clinical Assessment II (4)**

Prerequisite: Psych 7404. Theory and techniques of personality assessment with emphasis on projective personality tests. This course includes a laboratory.

**7408 Psychological Perspectives on Death and Dying (3)**

Prerequisite: Graduate standing. Addresses a variety of end-of-life issues including death attitudes, funeral practices, ethics, grief theory, family communication patterns, and health care systems. Research findings and theoretical approaches will be emphasized.

**7410 Women and Mental Health (3)**

Prerequisite: Admission to the doctoral program in Clinical Psychology or consent of instructor. Same as WGST 6410. This course will focus on contemporary research on the psychology of women pertaining to mental health issues. Etiology and treatment of disorders disproportionately affecting women will be emphasized

**7412 Social Psychology (3)**

Prerequisite: Admittance to psychology doctoral program or consent of instructor. A review of key areas in contemporary theory and research in social psychology.

**7415 Seminar in Health Psychology & Behavioral Medicine (3)**

Prerequisites: Admission to doctoral program in clinical psychology or consent of instructor. This course analyzes research, theory, and clinical applications in the interrelationships of behavior, psychological states, physical health and disease. Discussion includes theoretical foundations of health and illness, biopsychosocial factors affecting health and public policy, and research issues. Critical evaluation of theory and empirical support for clinical applications in health psychology will be discussed.

**7418 Seminar in Human Sexuality (3)**

Prerequisite: Admission to the doctoral program in Clinical Psychology or consent of instructor. Same as WGST 6418. Review of theory and research in human sexuality from physiological, psychological, and social perspectives. Implications for the assessment and treatment of sexual dysfunction are considered.

**7419 Existential Issues in Clinical Psychology (3)**

Prerequisite: Admission to the doctoral program in Clinical Psychology or consent of instructor. This course will review existential thought in psychology and its application to understanding clinical problems and treatment. Particular attention will be given to how Psychotherapy can be understood within an existential framework that focuses on the issues of death, freedom, responsibility, and isolation.

**7421 Quantitative Methods I (4)**

(With laboratory) A comprehensive study of the use of analysis of variance procedures in analyzing data. Topics include completely randomized designs, randomized blocks, factorial designs, and the analysis of covariance.

**7422 Quantitative Methods II (4)**

Prerequisites: Psych 7421 and consent of instructor. (With laboratory) A comprehensive study of the use of multivariate statistics in data analysis. Topics include the general linear model, multiple regression, factor analysis, and multivariate analysis of variance.

**7423 Quantitative Methods III (3)**

Prerequisites: Psych 7422 and Psych 7429 and consent of instructor. A selective study of the use of multivariate statistics in data analysis. Topics include structural equation modeling, multilevel modeling, and analysis of longitudinal data.

**7429 Psychometric Theory (3)**

Prerequisite: Psych 7421, Psych 7422 and consent of instructor. A consideration of classical and modern theories of psychological testing. Topics include test reliability, validity and construction.

**7430 Introduction to Clinical Skills (1)**

Prerequisites: Admission to doctoral program in clinical psychology. An introduction to processes and procedures involved in psychotherapy.

**7431 Clinical Supervision (1-3)**

Prerequisite: Admission to Clinical Psychology program. Supervised experience in clinical practice. Maybe repeated six times for credit.

**7432 Ethics and Professional Issues (3)**

A study of issues in professional development, clinical supervision, risk management, and ethical standards as they relate to teaching, research, and professional practice.

**7434 Seminar: Introduction to Psychotherapy (3)**

Prerequisite: Admittance to Clinical Psychology program and Psych 7406. This course considers theories of personal change and their practical application in psychotherapy. Topics include the development of the therapist-client relationship, case management, process and outcome research, and ethical principles for the psychotherapist.

**7439 Summer Supervision (1)**

Prerequisite: Psych 7431. Supervision experience in clinical practice at all graduate year levels during the summer months. Can be repeated for credit.

**7440 Principles of Family Therapy (3)**

Prerequisite: Psych 7434. Survey of research and theory underlying models of family interaction. Practical application of specific techniques to the family system is emphasized.

**7441 Seminar: Cognitive and Behavior Theories (3)**

Prerequisite: Admission to Clinical Psychology program or permission of instructor. A course on cognitive and behavioral theories and their applications to clinical populations. Emphasis is on a critical review of research on cognitive and behavioral therapy procedures.

**7442 Seminar: Cognitive and Behavior Therapy (3)**

Prerequisites: Psych. 7434. The practice of behavior therapy. Students will learn to implement behavioral assessment and therapy strategies in clinical settings.

**7445 Seminar: Special Topics in Clinical Psychology (1)**

Prerequisites: Admission to doctoral program in clinical psychology or consent of instructor. A seminar of selected issues and methods in clinical psychology. May be repeated for a total of 3 credit hours, provided the subject matter is different.

**7447 Trauma and Recovery (3)**

Prerequisites: Graduate Trauma Studies Certificate. A comprehensive seminar on the psychological effects associated with exposure to potentially traumatic events. The course will include information on the history of trauma studies; definitions of stressful and traumatic events; common responses to these events; theoretical models for conceptualizing traumatic responses; information on specific types of traumatic events; and issues in treatment.

**7449 Research Methods in Applied Psychology (3)**

Prerequisite: One graduate course in statistics. This course focuses on the basics of conducting research in applied psychology. Topics include: philosophy of science; reliability and validity; experimental, quasi-experimental, and nonexperimental designs; power; and meta-analysis.

**7450 Clinical Internship I (1)**

Prerequisite: Consent of adviser. Supervised training in an affiliated agency or organization following completion of two years of course work.

**7451 Clinical Internship II (1)**

Prerequisites: Psych 7450 and consent of adviser. Supervised training in an affiliated agency or organization following completion of two years of course work.

**7454 Seminar: Personnel Psychology (3)**

An analysis of theories and research in personnel and industrial psychology. Topics include testing, assessment centers, performance appraisal, and interviewing.

**7455 Seminar: Organizational Psychology (3)**

An analysis of theories and research in organizational psychology. Topics include theories of motivation, leadership, job design, group process decision making, organizational effectiveness, and the relation between organizations and their environment.

**7457 Seminar: Special Topics in Industrial Psychology (3)**

A seminar of selected issues and methods in personnel psychology.

**7458 Seminar: Special Topics in Organizational Psychology (3)**

A seminar of selected issues and methods in organizational psychology.

**7459 Practicum in Industrial/Organizational Psychology (1-4)**

Supervised experience in personnel or human resource management.

**7460 Internship in Industrial/Organizational Psychology (1-4)**

An analysis of theories and research in organizational psychology. Topics include theories of motivation, leadership, job design, group process decision making, organizational effectiveness, and the relation between organizations and their environment.

**7465 Applied Issues in Organizational Psychology (3)**

Prerequisites: Psych 7455 or consent of instructor. This course focuses on the application of psychological theory and principles to organizational development consulting. While such consulting is ultimately intended to enhance organizational level functioning, applications of this approach begin with learning at the individual and small group levels. In this course, students work through real-world cases that address real organizational problems. In addition to this casework, the readings and class discussions will address the theoretical and practical links between individual/team learning and organizational development.

**7469 I/O Professional issues & Ethics (3)**

Prerequisites: Consent of instructor. In this course, students learn the ethical standards as they relate to teaching, research, and professional practice in industrial/organizational psychology. Other professional and career issues are also discussed.

**7472 Special Topics in Psychology (3)**

A seminar of selected issues and methods in psychology.

**7474 Clinical Research in Applied Settings (3)**

Prerequisite: Psych 7421 and 7422. This course provides information on the design and implementation of

research in applied settings (e.g., human service agencies). Topics include program evaluation, consultation models, risk factor analysis, presentation and health promotion, and quality control.

**7476 Seminar in Clinical Child Psychology (3)**

Prerequisite: Admission to the doctoral program in Clinical Psychology or consent of instructor. Introduction to principles, theory, and methods of study in the field of clinical child psychology. Emotional and behavioral dysfunctions are considered from developmental and socialization perspectives.

**7477 Principles of Child Psychotherapy (3)**

Prerequisites: Psych 7434 and 7476. The course will focus on treatments for children with clinical problems. Play therapy, family therapy, and behavioral therapy techniques will be reviewed. Special attention will be given to differentiating when to use each modality, as well as how they can be effectively combined.

**7478 Directed Research in Industrial/Organizational Psychology (1-4)**

Independent study of an issue in industrial/ organizational psychology through the application of research techniques.

**7479 Directed Readings in Industrial/Organizational Psychology (1-4)**

Independent literature review of a topic in industrial/ organizational psychology.

**7480 Research Methods in Clinical Psychology (3)**

Prerequisite: Psych 7421 or equivalent. An overview of research methods that are appropriate for clinical and other nonlaboratory settings.

**7483 Directed Research (1-10)**

**7484 Directed Readings (1-10)**

**7485 Research Team I (2)**

Prerequisite: Admittance to doctoral program in Clinical Psychology. Group supervision of beginning research leading to the Independent Research Project.

**7486 Research Team II (1)**

Prerequisite: Completion of Independent Research Project or Third Year standing in doctoral program in Clinical Psychology. Group supervision of advanced research leading to the dissertation proposal.

**7487 Independent Research Project (1-6)**

Prerequisites: Admission to the doctoral program in Clinical Psychology. Supervised original research project of a clinically-related topic.

**7488 Specialty Examination Research (1-6)**

Prerequisites: Admission to the doctoral program in Clinical Psychology. Supervised original review and analysis of a clinically-related topic.

**7491 M.A. Thesis Research (1-10)**

**7492 Ph.D. Thesis Research (1-10)**

**7494 Integrative Research Seminar in Gerontology (3)**

Same as Geron 6494 Prerequisite: A graduate level research methods course (e.g., P P AD 6010). This seminar requires students to critically examine research in gerontology in terms of methodology. Topics covered include: reliability and validity of measures; internal and external validity; needs assessment; treatment implementation and process evaluation; and qualitative methods.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## School of Social Work

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### **School of Social Work Home Page**

#### **Faculty**

**Lois Pierce**, Professor, Director  
Ph.D., Washington University

**Uma Segal**, Professor  
Ph.D., Washington University

**Margaret Sherraden**, Professor  
Ph.D., Washington University

**Norman Flax**, Associate Professor Emeritus  
Ph.D., Saint Louis University

**Joan Hashimi**, Associate Professor Emeritus,  
Ph.D., Washington University

**Sharon Johnson**, Associate Professor  
Ph.D., Washington University

**Thomas Meuser**, Associate Professor  
Ph.D., University of Missouri-St. Louis

**Shirley Porterfield**, Associate Professor  
Ph.D., University of Wisconsin - Madison

**Baorong Guo**, Assistant Professor  
Ph.D., Washington University

**M. Denise King**, Assistant Professor  
Ph.D., University of Maryland

**Joseph Pickard**, Assistant Professor  
Ph.D., Washington University

**Patricia Saleeby**, Assistant Professor  
Ph.D., Washington University

**Lori Curtis**, Assistant Teaching Professor  
M.S.W., Washington University

**Diane O'Brien**, Lecturer  
M.S.W., Washington University

**Patricia Rosenthal**, Associate Clinical Professor  
M.S.W., Washington University

**Beverly Sporleder**, Lecturer  
M.S.W., Washington University

**Linda Vawter**, Assistant Clinical Professor  
M.S.W., Washington University

**Linda Wells-Glover**, Assistant Teaching Professor  
M.S.W., Washington University

The School of Social Work faculty is committed to excellence in teaching and scholarly research in a wide range of specialties. These include child welfare, gerontology, community organization, addictions, social service policy, and international social work. Faculty also serve on the executive and advisory boards of many area social service agencies.

The School of Social Work offers a Bachelor of Social Work (BSW), a Masters in Social Work (MSW) and a Master of Science in Gerontology (MSG), Graduate Certificates in Gerontology and Long-Term Care Administration and an Undergraduate Certificate in Gerontological Studies.

Courses may be completed through day or evening coursework (BSW) or through evening courses (MSW, MSG). Credit courses are offered off-campus through University Outreach.

#### **General Information**

### Degrees and Areas of Concentration

The School of Social Work offers courses leading to a bachelor of social work (B.S.W.), a master of social work (M.S.W.), and a minor in social work. The B.S.W. and the M.S.W. programs are fully accredited by the Council on Social Work Education. The programs stress the critical, empirical, and applied aspects of social work, incorporating a liberal arts perspective throughout the curriculum. There is a strong accent on community and agency field work as an integral part of the program. Professional social work education enables students to integrate the knowledge, values, and skills of the profession into competent practice.

Students must apply for admission into the B.S.W. and the M.S.W. programs. Undergraduate social work majors and Master's students should obtain a copy of the *Student Handbook* (available on the [social work department's Web page](#)). BSW students must meet with a social work adviser for advisement each semester. Students in the B.S.W. or the M.S.W. program must set up an appointment with the practicum office one semester prior to enrolling in the practicum and attend a series of pre-practicum orientation sessions.

### Undergraduate Studies

#### General Education Requirements

Majors must satisfy the university and college general education requirements, except that proficiency in a foreign language is recommended but not required.

Courses required for the B.S.W. degree may not be taken on a satisfactory/unsatisfactory basis except Soc Wk 4800 and Soc Wk 4850.

#### Admission Requirements

Students entering UM-St. Louis as freshman and as transfer students should indicate a pre-social work major. Students must apply to the program concurrently with SW 3100. Admission to the program is conditional upon the successful completion of all necessary requirements.

#### Requirements for Admission to the Social Work program:

Junior standing

Submission of:

- Application for admission to social work program.
- Transcripts of all university work.
- Two letters of reference: one from a college or university professor and one other, preferably from a work or volunteer experience supervisor.
- Completion of Soc Wk 2000, 2200, and 2201 or their equivalents or completion of an A.A. in Human Services.
- Satisfactory completion of all courses listed as prerequisites for Soc Wk 3100, 3210, and 3510.
- Applicants may be asked to meet with the social work Admissions Committee.

### Undergraduate Studies

#### Bachelor of Social Work

Students must have a minimum GPA of 2.5 in social work and related-area requirement courses to enter field practicum. Candidates for this degree program must complete the core requirements including the following social work courses:

**2000**, Social Work and Social Problems

**2200**, Social Welfare as a Social Institution

**2201**, Social Welfare as a Social Institution Laboratory

**3100**, Introduction to Interventive Strategies for Social Work Practices

**3210**, Social Issues and Social Policy Development

**3510**, Human Behavior in the Social Environment

**3700**, Diversity and Social Justice

**4110**, Interventive Strategies for Social Work with Individuals, Families, and Groups

**4300**, Interventive Strategies for Social Work with Organizations and Communities

**4800, and 4850**, Supervised Field Experience in Social Work I and II

**4801 and 4851**, Integrative Field Experience Seminar I and II

A minimum of 37 hours or a maximum of 50 hours must be taken in social work. A minimum of 30 hours is required in related area departments.

Evaluation of social work transfer credits will be done by a social work adviser on an individual basis.

#### Related Area Requirements

The following courses, or their alternatives, are required:

#### Biology

**One course from the following:**

**1102**, Human Biology  
**1131**, Human Physiology and Anatomy I  
**1141**, Human Physiology and Anatomy II  
**1202**, Environmental Biology

**Econ 1000**, Introduction to the American Economy  
**Pol Sc 1100**, Introduction to American Politics  
**Psych 1003**, General Psychology

**Sociology:**

**1010**, Introduction to Sociology  
**2160**, Social Psychology  
**3220**, Sociological Statistics, 2201. **or** Psychology Stats, **or** CCJ Stats  
**Soc Wk 3410**, Research Design in Social Work, **or** Sociol 3230, Research Methods **or** 2219 Psychology, 2210 Criminology

At least 9 additional hours must be taken in social work, sociology, political science, psychology, women's and gender studies, anthropology, criminology and criminal justice, or economics at the 2000 level or above. Hours taken in social work will apply toward the maximum of 50 hours that may be taken in social work courses. The School of Social Work may require students to pass a placement test to enroll in the next level course, provided this test or its equivalent is administered to all students seeking to enroll in that course.

Social work majors must have a cumulative grade point average of 2.5 or better in all course work specifically required for the major, with satisfactory grades in practicum.

**Note** Taking anthropology, biological sciences, economics, and Spanish courses is strongly recommended by graduate schools of social work.

**Requirements for the Minor in Social Work**

Candidates must complete the following **social work** courses:

**2000**, Social Work and Social Problems  
**2200**, Social Welfare as a Social Institution  
**3100**, Interventive Strategies in Social Work Practice  
**3210**, Social Issues and Social Policy Development  
**and one additional social work course at the 3000 level or above.**

**Graduate Studies**

**Master of Social Work**

**Admission Requirements**

Admission to the M.S.W. Program requires admission to the University of Missouri-St. Louis Graduate School **and** acceptance by the School of Social Work. Applicants to the program must meet the following requirements to be considered for admission:

Completion of a bachelor's degree from a college or university accredited by a recognized regional accrediting organization.

Completion of a liberal arts education including courses in the humanities, the social and behavioral sciences, and the physical sciences. These courses must include one in human biology and one in statistics.

Attainment of a cumulative grade point average of at least 2.75 on a 4.0 scale for all undergraduate course work and attainment of at least a grade point average of 2.75 on a 4.0 scale in the major field.

Submission of the following documents by the admission deadline:

- A completed application to the UM-St. Louis Graduate School and a completed M.S.W. supplemental application
- Three written essays.
- Three letters of reference. - One from a professor in the undergraduate field of study, one from a work or volunteer supervisor or other professional reference.
- Official transcripts from all colleges and university attended.
- Applicable fees.

**Application Deadline**

The deadline for application to the MSW program is February 15 for admission in the following fall semester. (See [School of Social Work's website](#) , for more details on additional deadlines.)

### **Admissions to the Advanced Standing Program**

Applicants with a B.S.W., B.A.S.W., or B.S.S.W., from an accredited social work program may be given up to 24 credit hours of advanced standing for foundation social work courses. Admission to the advanced standing program is available to applicants who meet the general admission requirements and who: (1) have earned a bachelor's degree in social work accredited by the Council on Social Work Education within five years of applying to the M.S.W. Program, and (2) have earned a grade point average of at least 3.0 on a 4.0 scale in the social work foundation curriculum, and no less than a B in all courses that are applicable.

### **Course Waivers**

A student who does not have a bachelor's degree in social work but who can document successful completion (with at least a B) of foundation courses from an accredited B.S.W. program within the last five years will be given course waivers and be allowed to replace these courses with electives.

Students from nonaccredited B.S.W. programs or students who have taken comparable course work in other undergraduate programs may take place-out examinations for select foundation courses; waivers will be given if students successfully pass place-out examinations. The waiver does not provide graduate credit; it is a mechanism for allowing elective courses to be substituted for required foundation courses.

Academic credit cannot be given for life experience and previous work experience, in whole or in part, in lieu of field practicum or foundation year courses.

### **Degree Requirements**

The M.S.W. is a two-year program comprising a foundation year and a concentration year. All students are required to take the foundation year courses. These provide a common base of knowledge across all practice settings and populations. Beyond the general requirements of the Graduate School, the department requires a minimum of 60 semester hours of course work, of which 45 must be at the 4000 or 5000 level and 45 must be in social work or crosslisted with social work, including the following foundation courses:

- 5100**, Generalist Social Work Practice
- 5200**, Social Policy and Social Services
- 5300**, Community Practice and Social Change
- 5350**, Social Work and Human Service Organizations
- 5410**, Research Methods and Analysis I
- 5450**, Research Methods and Analysis II
- 5500**, Foundations of Human Behavior in the Social Environment
- 5700**, Diversity, Social Justice & Social Work Practice
- 5801**, Graduate Field Practicum Seminar
- 5800**, Graduate Field Practicum I

Upon completion of the 30 credits of foundation year requirements, students move into a year of specialization, called the concentration. The concentration year requires 30 hours of course work that includes 12 hours of elective graduate-level courses approved by the adviser. Students plan their degree program to reflect their career interests in the following concentration areas:

- Family Practice
- Social Work Leadership and Management
- Gerontology

To remain in good standing, students must maintain a cumulative GPA of 3.0 or better.

The field practicum is an integral part of the concentration year. Students will complete 300 hours (two days of full-time work each week) of M.S.W. supervised practice in an agency during the Winter semester of the foundation year, and 660 hours total (three days of full-time work per week) in the concentration year. A student must receive a grade of B or better in the first-year field practicum course in order to be eligible to enter the second year field practicum. S/U grades are given for the concentration practicum.

### **Part Time Status**

Students who enter the program as part-time students complete the foundation year in two years and the concentration course work in an additional two years. All students must complete the M.S.W. in four years.

### **Career Outlook**

The bachelor of social work program prepares persons for entry-level employment in social welfare agencies, schools, hospitals, correctional institutions, social action and community organizations, and day care, geriatric, or rehabilitation and residential centers. The master of social work program prepares professionals for advanced social work practice with individuals, families, groups, organizations, and communities. Individuals currently working in social welfare can develop skills and increase employment and job advancement

opportunities with the B.S.W. and M.S.W. degrees.

### **Course Descriptions**

Students who have earned 24 or more semester hours of credit at any accredited post-secondary institutions(s) before the start of the fall 2002 semester must meet the general education requirements stipulated in the UM-St Louis 2001-2002 Bulletin. The following social work courses fulfill the Social Sciences breadth of study requirements as described in that Bulletin:

2000, 2200, 3100, 3510, 3210, 4602, 3900, 3700, 4601, 4900, 4950, 5700

#### **2000 Social Work and Social Problems (3)**

Prerequisites: Sociol 1010 or Psych 1003. Examination of the network of social programs and services developed in response to social problems in modern urban communities and the various roles and functions performed by helping professions. Introduction to basic values, skills, and training involved in a helping relationship, as well as characteristics of clients seeking help and professional engaged in the helping process.

#### **2102 Introduction to Women's and Gender Studies (3)**

Same as Hist 2102, Sociol 2102 and WGST 2102. This core class is required for all Women's and Gender Studies Certificate earners. This class introduces students to cultural, political and historical issues that shape gender. Through a variety of disciplinary perspectives in the humanities, social sciences, and natural sciences, the course familiarizes students with diverse female and male experiences and gendered power relationships.

#### **2200 Social Welfare as a Social Institution (3)**

Prerequisite: Soc Wk 2000 or consent of instructor. A study of the: 1) development of social welfare services and the philosophy underlying the present practices and systems; 2) present social welfare programs with particular emphasis given to public income-maintenance provisions; 3) special welfare needs of blacks, aged, women, Hispanics, and Native Americans; and 4) the development of social work as a profession. This course may be taken by non-social work majors.

#### **2201 Social Welfare as a Social Institution Laboratory (3)**

Prerequisites: Simultaneous with Soc Wk 2200. The lab session will be used for field trips to social agencies. This course is required for all Social Work majors.

#### **2330 Asians in Migration (3)**

Prerequisites: None. This course is a comparative analysis of the social and cultural diversity of the peoples of East, South, and Southeast Asia. Study focuses on their reasons for migration and the extent and quality of the social and cultural connections they maintain to their homelands. Implications of these cultures for students in a variety of disciplines are explored. This course satisfies the cultural diversity requirement.

#### **2670 Aging in America: Concepts and Controversies (3)**

Same as Intdsc 2170, Sociol 2170, and Geron 2170. This course examines the major theoretical and service issues connected to the study of older adults and their families, using multidisciplinary perspectives. Students are provided with an introduction to the field of aging through an examination of current social issues and controversies. This course emphasizes student involvement through class discussion, and is appropriate for students in the arts and sciences, business, communication, education, and nursing.

#### **3100 Introduction to Interventive Strategies for Social Work Practice (3)**

Prerequisites: Soc Wk 2200, Sociol 1010 and Psych 1003, or permission of instructor. A presentation of basic knowledge, skills, and theory used for entry-level professional practice, such as problem assessment, interviewing skills, crisis intervention, and referral procedures. The course objectives also will be to teach students how to help clients negotiate systems effectively, and to use resources, services, and opportunities.

#### **3210 Social Issues and Social Policy Development (3)**

Prerequisites: Soc Wk 2200, Pol Sc 1100, and Econ 1000. The identification of issues concerning governmental provisions to meet contemporary social needs, with analysis of the principles and values underlying alternative solutions. A study of the processes by which citizen opinions and public policies evolve and are implemented in areas such as income maintenance, crime and delinquency, employment, family and child welfare, and public mental health.

#### **3410 Research Design in Social Work (3)**

Prerequisites: Satisfaction of Math Proficiency requirement and either Sociol 3220, Crimin 2220, or Psych 2201. Students explore research concepts and procedures (hypothesis testing, sampling, measurement, and design) emphasizing issues in social work research. Students learn to collect, analyze and present data.

#### **3510 Human Behavior in the Social Environment (3)**

Prerequisite: Biol 1012 and Sociol 2160 or Psych 2160 or permission of instructor. This course will focus on the normative stages in the life span, specifically how human development is affected by the physical environment and social status characteristics. Empirical information and theoretical views on human development will be

included. Human development will be viewed as a complex interaction of individual developmental stages with family, social, and community systems.

**3700 Diversity and Social Justice (3)**

(Same as WGST 3700). Prerequisite: Sociol 1010 or equivalent. Analyzes the structure, dynamics, and consequences of social and economic injustice, and the impact on diverse groups in American society. Examines theoretical models and practice principles for work with diverse groups.

**3900 Selected Topics in Social Work Practice (3)**

Prerequisite: Soc Wk 3100 or Soc Wk 3210, or consent of instructor. A course examining special topics in social work practice. Relative theories, strategies, and skills will be presented for topics selected. Course may be taken more than once for credit as different topics are offered.

**4110 Interventive Strategies for Social Work with Individuals, Families, and Groups (3)**

Prerequisites: Soc Wk 3100, and Soc Wk 3510. This course continues the presentation of basic knowledge and practice skills for entry level professional practice begun in SW 3100. It builds on the generalized helping model, incorporating specialized skills for working with specific groups of clients (e.g., children, aged, mentally ill, and physically handicapped), with families and small groups.

**4300 Interventive Strategies for Social Work with Organizations and Communities (3)**

Prerequisites: Soc Wk 3210 taken prior to or concurrently, senior standing. Continuation of basic practice skills with emphasis given to analysis and intervention at the organization and community levels. Includes assessment of available services, organization of client groups, efforts to modify resources for a client group unable to intervene effectively on its own behalf. Also emphasis on helping the practitioner evaluate the impact of intervention.

**4376 Mental Health and Aging (3)**

Same as Geron and Psych 4376. Prerequisites: 9 hours of psychology, graduate standing, or consent of instructor (MSW students normally take all foundation courses prior to enrolling in this course.) A survey of recent theory and research in mental health issues for older populations. The primary focus is on major Psychological disorders prevalent among the elderly and in treatment approaches for elders.

**4398 Child Maltreatment: A Multidisciplinary Approach (3)**

Same as Psych 4398. Focuses on clinical aspects of child abuse with attention to identification, reporting, intervention, and prevention. Perspectives from the disciplines of Psychology and social work are provided.

**4399 Seminar: Child Sexual Abuse (1)**

Same as Psych 4399. Provides intensive study in interviewing, legal issues, assessment, medical issues, and therapeutic intervention in cases of child sexual abuse.

**4601 Abused and Neglected Children (3)**

Prerequisite: Soc Wk 3510 or equivalent. This course explores the major concepts necessary for understanding abused and neglected children and their families. Emphasis is placed on (1) defining the problem, including societal stresses which contribute to the abuse and neglect; (2) examining existing practice methods; and (3) understanding the role of the social worker on interdisciplinary teams.

**4602 Child Welfare Practicum Seminar (3)**

Prerequisites: Soc Wk 4800, and consent of instructor. This seminar allows students to integrate previous course work with their experience in child welfare agencies. Classroom discussion will emphasize core competencies needed for child welfare practice.

**4610 Domestic Violence: Theory, Problems & Practice (3)**

Same as WGST 4610. Prerequisites: Soc Wk 3510 Focuses on theoretical and empirical understanding of domestic violence in US society and social work practice with battered women and their families. This course addresses direct services, community organizing, and public policy changes to help end violence against women. Relationships between violence against women and other forms of oppression (e.g., racism, economic exploitation, heterosexism and social class) are explored.

**4630 Women's Social Issues (3)**

Same as WGST 4630. Prerequisite: Soc Wk 3510 or equivalent. This course will help students become more sensitive to the social and welfare concerns of women. The topics include work, education, family responsibilities, violence against women, and special health and mental health service needs. Emphasis will be placed on understanding how social action can be used to bring about positive change.

**4650 Forensic Issues in Mental Health (3)**

Same as Crimin 4650. This is an intensive course, investigating the intersection between the legal system and mental health. Students will explore issues involved in civil and criminal trial proceedings such as insanity defenses, diminished capacity, and competency to stand trial, civil commitment, battered women and rape

trauma syndrome, sexual abuse of children, child custody, and domestic violence. In addition, the course will examine the roles of mental health practitioners as forensic evaluators, trial consultants, and expert witnesses in a variety of mental health related cases.

**4800 Supervised Field Experience in Social Work I (4)**

Prerequisites: Soc Wk 4110 must be taken prior to or concurrently, Soc Wk 4801 must be taken concurrently, consent of instructor. This course provides students practice experience in social service agencies. Students work at the agencies approximately 20 hours per week. The purpose of this experience is to familiarize students with agency operations. Selection of the agency is based on student education needs.

**4801 Integrative Field Experience Seminar I (2)**

Prerequisites: Consent of instructor and concurrent registration in Soc Wk 4800. This seminar provides an opportunity for students to integrate previous course work with their experience in social work agencies. Classroom discussion will emphasize direct practice issues.

**4850 Supervised Field Experience in Social Work II (4)**

Prerequisites: Soc Wk 4800, Soc Wk 4801, and consent of instructor. This is a continuation of agency practice experience. Students work at the agency approximately 20 hours per week and may continue at the same agency as Soc Wk 4801, or change agencies with the consent of the instructor.

**4851 Integrative Field Experience Seminar II (2)**

Prerequisites: Consent of instructor and concurrent registration in Soc Wk 4850. This seminar is a continuation of Soc Wk 4801. Classroom discussion will emphasize administration and community organization issues.

**4900 Special Study (1-10)**

Prerequisite: Consent of instructor. Independent study through advanced readings in method and philosophy on a topic of particular interest, or field research in an agency.

**4911 Management Issues in Nonprofit Organizations: Staff Management Issues (1)**

Prerequisite: Junior Standing. Same as Pol Sc 4911 and P P Ad 4911. This course addresses issues involved in managing staff in nonprofit organizations. The course will cover the following topics: fundamentals of staff supervision; balancing supervisory processes with counseling and coaching; selecting, hiring, evaluating, and terminating staff; legal issues that affect these processes.

**4912 Management Issues in Nonprofit Organizations: Legal Issues in Governing and Managing Nonprofit Organizations (1)**

Prerequisite: Junior Standing. Same as Pol Sc 4912 and P P Ad 4912. This course addresses legal issues involved in managing and governing nonprofit organizations. The course will cover the following topics: The Board as steward of the organization; Director and officer liability; tax laws concerning charitable giving; legal issues in managing staff and volunteers (e.g., hiring, evaluating, and terminating employees); Missouri nonprofit law.

**4913 Management Issues in Nonprofit Organizations: Financial Issues (1)**

Prerequisite: Junior Standing. Same as Pol Sc 4913 and P P Ad 4913. This course addresses financial issues involved in governing and managing nonprofit organizations. The course will cover the following topics: Cash flow analysis; budgeting; fund accounting; cost accounting (determining costs for programs and services); understanding and using standard financial statements, including balance sheets, cash flow statements, statements of activity, and operating and capital budgets.

**4940 Leadership and Management in Nonprofit Organizations (3)**

Prerequisite: Junior standing. Same as P P Ad 4940, Pol Sc 4940, Sociol 4940. Addresses the role and scope of the independent sector in the United States, as well as the leadership and management of nonprofit organizations within that sector. Topics include the economic and political scope of the independent sector, the role of volunteerism in a democratic society, and the role and scope of philanthropy. Topics in voluntary organization management and leadership include: the dynamics, functions and membership structure of NPOs, especially staff-board and other volunteer relations; governance and management of NPOs; resource mobilization; and program development management and evaluation.

**4950 Seminar in Social Work Issues (1-3)**

Prerequisite: Consent of instructor. A variable-credit course examining current and future considerations in designing and implementing social work service and delivery arrangements. Issues will be selected according to interests of the class. Course may be taken more than once for credit as different topics are offered.

**4960 American Philanthropy and Nonprofit Resources Development (3)**

Prerequisite: Junior standing or consent of instructor. Same as Pol Sc 4960 and P P Ad 4960. This course addresses the history, philosophy, roles and scope of philanthropy in the United States, including its role in the nonprofit, voluntary sector. It further examines the contemporary forces which impact philanthropy and charitable giving, both by institutions and individuals. The course examines the effective planning and

management of development programs (e.g., annual giving), fund raising vehicles (e.g., mail solicitations) and the fund raising process, from planning through donor relations.

**5100 Generalist Social Work Practice (3)**

Prerequisite: Soc Wk 4110 or equivalent or admission to the MSW program. Using a problem-solving approach, students develop theoretical and empirical understanding and practical application of generalist social work methods. Students gain knowledge and skills that include interviewing, assessment, crisis and short-term intervention, contracting, resource development, and case documentation needed for competent direct practice with diverse populations.

**5200 Social Policy and Social Services (3)**

Prerequisite: Soc Wk 3210 or Pol Sc 2420 or Pol Sc 3460 or equivalent or admission to the MSW program. Covers the history and development of social welfare policies, legislative processes, and existing social welfare programs. Examines frameworks for social policy analysis, analyzes how social and economic conditions impact the process of social policy development and implementation, and introduces policy practice in social work.

**5300 Community Practice and Social Change (3)**

Prerequisites: Soc Wk 4300 or Sociol 4344 or equivalent or admission to the MSW program. Focuses on economic, social, and political theory and research on communities and social change. Examines conceptual models of community practice within the generalist model and develops skills in organizing, advocacy, and planning.

**5350 Social Work and Human Service Organizations (3)**

Prerequisites: Soc Wk 3510 and 4300 or Psych 3318 or Bus Ad 3611 or equivalent or admission to the MSW program. Students develop theoretical and empirical understanding of groups and organizations, including concepts such as power and authority, structure, goals, membership, leadership, motivation, technology and organizational culture. Using organizations as settings for social work practice and as targets for change, students learn strategies and skills for assessment and intervention.

**5410 Social Work Research Methods and Analysis I (3)**

Prerequisites: Soc Wk 3410 or Sociol 3230 and 3231 or equivalent and Sociol 3220 or equivalent or admission to the MSW program. The first of a two-course sequence designed to provide students with the knowledge base and skills for using scientific method to advance social practice, knowledge and theory. Focuses on research methods at different levels (e.g., individual, group, organization, and community). Covers quantitative and qualitative methods, research design, sampling, measurement, use of results, impact of research, and ethical considerations.

**5450 Social Work Research Methods and Analysis II (3)**

Prerequisites: Soc Wk 5410 or equivalent. Advanced course, focusing on analysis of qualitative and quantitative data to advance social work practice, knowledge and theory. Students learn to use and interpret various statistical procedures for analyzing quantitative data, including bivariate and multivariate analysis, and content and statistical analysis for qualitative data. Students apply these analytic techniques to social work case material using computer software applications.

**5500 Foundations of Human Behavior in the Social Environment (3)**

Same as WGST 5500. Prerequisites: Soc Wk 3150 or equivalent or admission to the MSW program. Focuses on theoretical and empirical understanding of human behavior in the social environment using a life-span perspective. Introduces biological, behavioral, cognitive, and sociocultural theories of individuals, families, and small groups, and their implications for the professional social worker's understanding of socioeconomic status, gender, disability, ethnicity, race, and sexual orientation.

**5610 Mechanisms of Aging I: The Aging Body (1)**

Prerequisites: Graduate standing and Biol 1102 or equivalent. (Same as Geron 5610 and Psych 5610). (MSW Students normally take all foundation courses prior to enrolling in this course.) Introduces students with a social sciences/humanities background to the normal changes in the biology and chemistry of the aging human body and how these changes affect behavior.

**5611 Mechanisms of Aging II: The Aging Brain (1)**

Prerequisites: Soc Wk 5610, Geron 5610, Psych 5610 or equivalent or consent of instructor. (Same as Geron 5611 and Psych 5611). (MSW students normally take all foundation courses prior to enrolling in this course.) Provides students with a social sciences/humanities background a basic introduction to the biology and chemistry of the aging human brain and nervous system and how these systems impact behavior.

**5612 Mechanisms of Aging III: Diseases of Aging (1)**

Prerequisites: Soc Wk 5610 and Soc Wk 5611 or Geron 5610 and Geron 5611 or Psych 5610 and Psych 5611 or equivalent or consent of instructor. (Same as Geron 5612 and Psych 5612). (MSW students normally take all foundation courses prior to enrolling in this course.) Provides students with a social sciences/humanities background with information on how diseases associated with aging exacerbate the effects of aging on the

human body, mind, behavior.

**5700 Diversity, Social Justice & Social Work Practice (3)**

Same as WGST 5700. Prerequisites: Graduate standing. Analyzes the structure, dynamics, and consequences of social and economic injustice, and the impact on diverse groups in American society. Examines theoretical models and practice principles for work with diverse groups.

**5800 Graduate Field Practicum I (2-4)**

Prerequisites: Graduate standing and consent of instructor. Provides integrative field experience in generalist social work practice. May be taken for 2 or 4 credit hours depending on time in agency during semester; 75 contact hours = 1 credit hour. May be repeated once. A maximum of 4 credit hours will apply to the M.S.W. degree.

**5801 Foundation Field Practicum Seminar (2)**

Prerequisite: Graduate standing and consent of instructor. Integrates academic content from foundation course work and experiential learning in field placements. Goals are to conceptualize the problem solving process in field practice, synthesize theory into a social work approach that encourages creative use of self, and underscore ethics and service to diverse groups in practice.

**6100 Theory and Practice with Children and Youth (3)**

Prerequisite: Soc Wk 5100 or equivalent or consent of instructor and graduate standing. Examines theory and empirically-based assessment and intervention models for work with children and adolescents. The effects of family, peers, and societal context (e.g., poverty, racism) will be stressed in understanding youth problems such as drug abuse, academic failure, delinquency, adolescent pregnancy, and gang participation. The course will emphasize a multi-disciplinary approach using inter-agency collaboration and negotiation skills.

**6120 Theory and Practice with Older Adults (3)**

Prerequisites: Soc Wk 5410 or equivalent. (MSW students normally take all foundation courses prior to enrolling in this course.) Examines theory and empirically-based assessment and intervention models for work with the elderly. It includes the life circumstances of older adults and how that differs from younger adult populations; how ethnicity, gender, social class, and sexual orientation interact with age and create special intervention issues; discussion of ethical and value issues (e.g., client autonomy, rationing of health care); examination of family and community resources in providing care, and interventions with physically or mentally disabled elders and elders in residential settings.

**6150 Theory and Practice with Families (3)**

Prerequisites: Soc Wk 5100 or equivalent, graduate standing and departmental approval. Examines theoretical approaches to social work with families, including the impact of the social environment. Skills will include assessment, and multidisciplinary intervention with multi-problem families. Special emphasis will be given to poverty, chemical dependency, intra-familial violence, physical and mental illnesses, and working with family members of diverse cultures, socioeconomic backgrounds, races, sexual orientation, and ability. Values and ethics will be emphasized.

**6160 Advanced Interventive Strategies Across the Life Span (3)**

Prerequisites: Soc Wk 5100 or equivalent or consent of instructor. Examines theory and empirically-based assessment and intervention strategies for diverse populations across the life span. Students will gain basic mastery of behavioral, cognitive-behavioral, brief therapeutic and supportive psychotherapeutic techniques and their appropriate use with children, adolescents, and young, middle, and older adults. The course will also consider the effects of family, peers and societal context (e.g., poverty, racism, and ageism) in understanding psycho-social stressors particular to each life era, including academic failure and delinquency, substance abuse, physical and mental illness, family disruption and instability, and grief and loss issues.

**6200 Family Policy (3)**

Prerequisites: Soc Wk 5200 or equivalent or consent of instructor and graduate standing. Same as Pol Sc 6416 and Sociol 6200. Examines policy development, implementation and impact of social policies on children, youth, and families. International, focus, including topics such as economic support, health national, and state policies that affect basic family needs will be the care, child care and protection, and child and youth development. Intended and unintended consequences of existing policies on the family will be examined as well as future policy directions.

**6250 Social and Economic Development Policy (3)**

Prerequisites: Soc Wk 5200 or equivalent or consent of instructor and graduate standing. Same as Pol Sc 6418. Examines major trends and alternatives in social and economic development policy and practice in state, national, and international perspectives. Students will develop skills in policy analysis and development.

**6400 Practice and Program Evaluation (3)**

Prerequisites: Soc Wk 5410 and 5450 or equivalent or consent of instructor and graduate standing. Provides specialized knowledge in the use of qualitative and quantitative research skills to evaluate the effectiveness of

social work practice. Topics will include single system design, group designs, and program evaluation. Students will design and conduct a research project associated with their advanced social work practicum. Results will be presented to the class and the agency. Value and ethical issues, particularly those relevant to client race and gender, will be emphasized as students develop and conduct their research.

#### **6417 Income & Pension Policy for the Aged (3)**

Prerequisites: Graduate standing or consent of instructor. Same as P P Ad 6417, Geron 6417 and Pol Sc 6417. (MSW students normally take the social policy foundation course prior to enrolling in this course.) Examination of federal, state, and local policies that affect the economic well-being of the elderly. The development of social security programs and pension programs is explored within a historical context. Emphasis is placed on the analysis of current policy problems and proposed solutions.

#### **6443 Health Care Policy (3)**

Prerequisites: Graduate standing or consent of instructor. Same as Pol Sc 6443, Geron 6443 and P P Ad 6430. (MSW students will normally take the social policy foundation course prior to enrolling in this course.) Survey course examining current issues in health policy that face the nation. Policies are placed in a historical context to show how issues have been influenced by different political and economic conditions. Secondary consequences and limitations of current trends in health policy are explored.

#### **6449 Human Resources in the Public Sector (3)**

Prerequisites: P P Ad 6600 or consent of instructor. Same as Pol Sc 6449 and P P Ad 6490. Presents an overview of personnel and labor relations in the public sector. Particular emphasis placed on issues which are unique to the public sector, such as the merit system, the questions of representative bureaucracy and the constraints of personnel in the nonprofit sector. The topics include personnel reforms in the federal sector, equal employment and affirmative action policies, testing, selection, hiring, comparable worth, job evaluation, and labor relations including grievance arbitration and collective bargaining.

#### **6491 Strategic and Program Planning for Nonprofit Organizations (3)**

Prerequisites: Graduate standing or consent of instructor. Same as Pol Sc 6490 and P P Ad 6550. Strategic and program planning enable an organization to concentrate on efforts and set priorities guided by a mission, vision, and an understanding of its environment. Focus is on preparing a strategic plan and a program plan for a nonprofit organization and analyzing an organization's ability to deliver goods and/or services to its constituents in today's economic, social and political climate.

#### **6630 Diagnosis and Related Pharmacology for Social Work Practice (3)**

Prerequisites: Soc Wk 5100 or equivalent or consent of instructor. Designed for social work students, course will provide overview of development and treatment of selected mental health disorders classified by the *Diagnostic and Statistical Manual of Mental Disorders*. In particular, course will examine, from a systems perspective, psychological and neuropsychological etiologies of mood, psychotic, personality, and other disorders and their preferred pharmacological treatment.

#### **6640 School Social Work (3)**

Prerequisites: Soc Wk 5100 or equivalent or graduate standing and consent of instructor. Examines role of social worker in school settings and includes work with youth, families, and communities in relation to the child or adolescent's functioning in school.

#### **6650 Gerontological Assessment (3)**

Prerequisites: Graduate Standing. This course provides an overview of psychosocial assessment with older adults and their family caregivers. Major areas of gerontological assessment practice are considered, including dementia, mood disorders, suicide, grief, alcoholism, elder abuse/neglect, family caregiving, and interdisciplinary team issues.

#### **6800 Graduate Field Practicum II (2-6)**

Prerequisites: Soc Wk 5801 and Soc Wk 5800. Provides integrative field experience in students' graduate social work practice concentration. May be taken for 2 to 6 hours' credit depending on time in agency during semester; 55 contact hours=1 credit hour. May be repeated once and/or taken concurrently with Soc Wk 6850.

#### **6850 Graduate Field Practicum III (2-6)**

Prerequisites: Soc Wk 6800. Provides advanced integrative field experience in students' graduate social work practice concentration. May be taken for 2 to 6 hours' credit depending on time in agency during semester; 55 contact hours=1 credit hour. May be repeated once and/or taken concurrently with Soc Wk 6800.

#### **6900 Directed Study in Professional Social Work (1-10)**

Prerequisites: Graduate standing and consent of instructor. Independent graduate-level study on a topic of particular interest through readings, reports, and field work under faculty supervision.

#### **6950 Advanced Seminar in Professional Social Work (1-3)**

Prerequisites: Graduate standing and consent of instructor. Focused study on selected issues, concepts, and methods of professional social work practice. May be taken more than once for credit provided the course topic is different each time.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Department of Sociology

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### **Department of Sociology Home Page**

#### **Faculty**

**Chikako Usui**, Associate Professor, Chairperson  
Ph.D., Stanford University

**George J. McCall**, Professor Emeritus  
Ph.D., Harvard University

**Herman W. Smith**, Professor Emeritus  
Ph.D., Northwestern University

**Harry H. Bash**, Associate Professor Emeritus  
Ph.D., University of Pennsylvania

**Sarah L. Boggs**, Associate Professor Emerita  
Ph.D., Washington University

**Nancy Shields**, Associate Professor  
Ph.D., Southern Illinois University-Carbondale

**Teresa J. Guess**, Associate Professor  
Ph.D., University of Missouri-Columbia

**Robert Keel**, Teaching Professor  
M.A., Washington University

**Melissa Bleile**, Adjunct Assistant professor  
Ph. D., University of Missouri-St. Louis

**Susan Tuteur**, Adjunct Assistant Professor  
Ph.D., University of Chicago

**Larry Irons**, Adjunct Assistant Professor  
Ph.D., Washington University

**John Perry**, Senior Lecturer,  
M.A., St. Mary of the Woods College, J.D., University of Arizona College of Law

**Linda Benson**, Lecturer  
M.A., UM-St. Louis

**Kathy Furgason**, Lecturer  
M.Ed., Maryville University

The faculty prides itself on its commitment to high standards of teaching and sound scholarly research. Systematic course evaluations by students each semester are taken seriously, and individual faculty have been singled out as nominees and recipients of university Excellence in Teaching awards. The ongoing scholarly research of the faculty is reflected in the department's upper-level and graduate courses, as well as in the numerous publications in journals and books or presentations at national and international meetings. Information on current academic activities of the faculty is posted on the [departmental Web page](#)

#### **General Information**

##### **Degrees and Areas of Concentration**

The sociology department offers courses leading to the B.A. in sociology and the B.S. in sociology; in cooperation with the College of Education, the B.A. in sociology with teacher certification; in cooperation with the College of Business Administration, the B.A. in sociology with a business option; and cooperative minor or certificate programs in American studies, black studies, legal studies, urban studies, religious studies, women's and gender studies, and international studies.

Students completing the B.A. or B.S. degree in sociology are well-prepared for graduate study in sociology or careers in industry, health and social services, and urban, intergroup, political, or community issues. Since the sociology department also offers work leading to the M.A. degree in sociology (see below), opportunities are available for graduate-level instruction to selected undergraduate students.

In addition to a balanced program of basic undergraduate to advanced graduate courses, the department

provides a range of opportunities for students to develop specialized research methods. Seminars, and internship placements are offered in support of this goal and are typically designed around the ongoing research interests of department faculty. The department provides students with opportunities for intensive direction and guidance from faculty. Students and faculty working in particular subject areas consult freely with members working in other areas. Research interests of sociology faculty extend beyond the department into a wide variety of joint projects with faculty in other departments and programs, including criminology and criminal justice, engineering, political science, trauma studies, women's and gender studies, gerontology, public policy research centers, and the Center for International Studies.

## **Undergraduate Studies**

### **General Education Requirements**

Students must satisfy the university and college general education requirements. Courses in sociology may be used to meet the social science requirement. The foreign language requirement for the B.A. degree may be satisfied in any language. Not more than 12-15 hours of community college transfer credit may be applied toward the combined minimum of required credit hours for the B.A. (30 credit hours) or B.S. (36 credit hours) major. No course in which a grade below a C- is received will count toward satisfying the core requirement.

### **Satisfactory/Unsatisfactory Restrictions**

Sociology majors may not take courses counting toward their major requirements on a satisfactory/unsatisfactory basis.

## **Degree Requirements**

### **Bachelor of Arts in Sociology**

In addition to specific baccalaureate degree requirements of the College of Arts and Sciences, candidates must complete 30 hours of sociology course credit including the following required core courses:

**1010**, Introduction to Sociology  
**3210**, Sociological Theory  
**3220**, Sociological Statistics, **or**  
**Math 1310**, Elementary Statistical Methods, **or**  
**Math 1102**, Finite Mathematics I, **or**  
**Math 1105**, Basic Probability and Statistics  
**3230**, Research Methods

**Note:** The core requirements should be completed as early as possible, preferably by the end of the junior year. Sociological Statistics is a prerequisite for research methods. Only 45 hours of sociology can be applied to the 120 hour total required for a degree from the University of Missouri-St. Louis.

For the B.A. in sociology candidates are required to take the core courses (12 hours) and at least 18 additional hours of sociology courses, selected according to career objectives, with at least six hours at the 4000 level (no more than three hours of either Sociol 4350, Special Study or Sociol 4385, Internship in Sociology may be applied to this 4000 level requirement). No more than three hours in sociology below the 2000 level can count towards this 18-hour requirement. Applied training through one or more research courses may be used as part of the requirement for the major.

### **Bachelor of Science in Sociology**

For the B.S. in Sociology, candidates are required to take the core courses (12 hours) and complete the following requirements.

Eight additional sociology courses (24 hours), chosen with the approval of the student's faculty advisor, are required for the B.S. in Sociology, including a minimum of four courses (twelve hours) at the 4000 or 5000 level (no more than three hours of either Sociol 4350 Special Study or Sociol 4385, Internship in Sociology may be applied to the 4000 or 5000 level requirement). No more than three hours in sociology below the 2000 level can count toward this 24-hour requirement.

### **Related Area Requirements:**

Candidates for the B.S. in sociology also must complete five courses from at least four of the following nine areas: computer science, economics, mathematics, philosophy, political science, probability and statistics, psychology, public policy administration, and international studies. Specific course selections must be approved by a faculty advisor.

### **Combined Degree: Bachelor of Science in Civil Engineering and Bachelor of Science in Sociology**

Students pursuing the combined degree are simultaneously enrolled in the College of Arts and Sciences and the Joint Undergraduate Engineering Program. They have an engineering faculty adviser as well as a faculty adviser in the Department of Sociology.

A program of 159 semester hours is required for the B.S. in civil engineering and the B.S. in sociology. Earned alone, the B.S. in engineering requires 137 semester hours. Because of the overlap in required courses for the two curricula, the combined degree program requires only 22 additional semester hours.

For additional information, see the section in this *Bulletin* labeled UM-St. Louis/Washington University Joint Undergraduate Engineering Program or contact:

Associate Dean of the Joint Undergraduate Engineering Program,  
228 Benton Hall,  
University of Missouri-St. Louis,  
One University Blvd.,  
St. Louis, MO 63121.

#### **B.A. or B.S. in Sociology with Teacher Certification**

Students must complete the B.A. or B.S. in sociology requirements, as well as the requirements for teacher certification. (See the College of Education section of this *Bulletin*.)

#### **B.A. or B.S. in Sociology with an Interest in Business**

The following courses are suggested for students seeking careers in sales, market research, and so forth. In addition to the B.A. or B.S. in sociology requirements, the following core courses are suggested:

**Econ 1001**, Principles of Microeconomics

**Bus Ad 2400**, Fundamentals of Financial Accounting

**Sociol 4646**, Demographic Techniques

Students may then choose to complete **one** of the following three sets of courses:

#### **1) Marketing Management**

**3700**, Basic Marketing

**3740**, Marketing Intelligence

**3760**, Industrial Marketing

#### **2) Financial Management**

**3500**, Financial Management

**3501**, Financial Policies

**3520**, Investments

#### **3) Accounting**

**2410**, Managerial Accounting

**3401**, Intermediate Accounting I

**3411**, Cost Accounting

#### **Requirements for the Minor**

Students must apply for the minor in sociology. Candidates must complete at least 15 hours of departmental course work in sociology, of which at least 9 must be completed at UM-St. Louis' department of sociology and must be beyond those applied to the candidate's major. At least 6 hours must be at the 4000 level (no more than 3 hours of either Sociol 4350, Special Study, or Sociol 4385, Internship may be applied to this 4000 level requirement).

Candidates who anticipate that their background in sociology may play a substantial role in their career plans are strongly encouraged to take some or all of the core requirements.

Candidates must have a cumulative grade point average of 2.0 or better in all courses pertaining to the minor. Department courses taken on a satisfactory/unsatisfactory basis may not be applied to the minor.

#### **Department Awards**

The department offers several annual awards to outstanding students on the basis of merit.

**The Ray Collins Alumni Award** is given annually by the Sociology Alumni Association to the top graduating senior. The awardee is selected by the faculty on the basis of GPA, and the award consists of first-year membership dues in the Sociology Alumni Association and a cash award.

**Honors Program Student Association Awards** are given annually to exceptional students. The awards include student affiliate memberships in the Honors Program Student Association of the American Sociological Association to aid the establishment of a network of colleagues who are at similar points in their career development.

**The Alumni Agent Scholarship** and the **Sociology Alumni Scholarship** are given to deserving sociology majors annually. The awardees are selected by the faculty on the basis of merit.

A series of undergraduate awards are given to outstanding students. The Freshman Sociology Award is given to the outstanding freshman student in lower-division sociology course work; the Outstanding Junior Sociology Major Award is given to the outstanding junior sociology major; the Outstanding Sociology Minor Award is presented to the graduating student with the most outstanding minor GPA record; and the Outstanding Sociological Statistics and Methods Award is given to the sociology major with the best overall record in Sociol 3220 and 3230. This award carries a stipend for the student to serve as an undergraduate course assistant for Sociol 3220, or 3230.

### Department Honors

The sociology department will award department honors for those B.A. and B.S. degree candidates in sociology with an overall grade point average of 3.2 or better. They must also successfully complete an independent study through Sociol 4350, Special Study.

### Graduate Studies

#### 2+3 B.A. and M.A. in Sociology

The 2+3 combined B.A./M.A. program in sociology provides an opportunity for students of recognized academic ability and educational maturity to fulfill integrated requirements of the undergraduate and master's degree programs from the beginning of their junior year. Because of its accelerated nature, the program requires the completion of some lower-division requirements of (12 hours) before entry into the three-year portion of the program. When all the requirements of the B.A. and M.A. programs have been completed, the students will be awarded both the baccalaureate and master's degrees. A carefully designed program can permit a student to earn both degrees within as few as ten semesters.

The combined program requires a minimum of 137 hours, of which 30 must be at the 4000 or 5000 levels. In qualifying for the B.A., students must meet all University and college requirements, including the requirements of the undergraduate major described previously. During the junior and senior years, students normally take a 4000 level research practicum course, Sociol 5400, Sociol 5402, and Sociol 5404. In qualifying for the M.A., students must meet all University and Graduate School requirements, including satisfactory completion of a minimum of 30 graduate credit hours. Up to 12 graduate credit hours may be applied simultaneously to both the B.A. and M.A. programs. Any 4000 level course applied to the M.A. requirements will require additional work to qualify for graduated credit.

Students should apply to the Graduate Director of the Department of Sociology for admission to the 2 + 3 combined degree program in sociology the semester they will complete 60 undergraduate degree credit hours, but no later than the accumulation of 90 credit hours. A cumulative grade point average of 3.0 or higher, and three letters of recommendation from faculty are required for consideration. Students will be admitted to the 2 + 3 programs under provisional graduate status until they have completed 30 credit hours with a grade point average of 3.0 or higher. After completion of the provisional period, and with recommendation of the Graduate Director, students can be granted full admission into the program. Students must maintain a grade point average of 3.0 or higher throughout the combined program. Students who officially withdraw from the 2 + 3 combined degree program will be awarded the B.A. degree when they have successfully completed all the requirements for the degree.

The following requirements must be completed prior to enrolling in the 2 + 3 program:

**1010**, Introduction to Sociology and three additional sociology courses.

The following UNDERGRADUATE courses are required for majors in the 2 + 3 program:

**3210**, Sociological Theory  
**3220**, Sociological Statistics (or an approved statistics course)  
**3230**, Research Methods

#### GRADUATE SOCIOLOGY REQUIREMENTS FOR STUDENTS IN THE 2 + 3 PROGRAM

The following GRADUATE courses are required at the 4000 to 5000-level:

1. **Sociol 5400**, Proseminar in Sociology
2. **Sociol 5402**, Advanced Quantitative Techniques
3. **Sociol 5404**, Advanced Methodology
4. **Five additional courses (15 hours) that have been approved by the Graduate Director**

#### Graduate Exit Requirements:

A student's program must include one of the following exit projects: a 6-hour internship (Sociol 5480, Individual Study) or a 6-hour preparatory sequence and an approved paper (Sociol 5490, Supervised Research). Each candidate is given a final oral review conducted by a faculty committee and focused on the course work completed and the student's chosen exit project or thesis.

**M.A. in Sociology**

The department offers a flexible program of studies leading to the Master of Arts degree in sociology. Course work combines intensive examination of the core areas of sociology with acquisition of the analytical skills of sociological investigation. A variety of career options are available to the master's-level graduate, including: program evaluation and research; field or casework related to community issues; administrative roles in social agencies and planning organizations; or doctoral studies in sociology or related fields.

The curriculum is designed to serve the needs of full-time students as well as working students who are able to engage only in part-time studies. This design allows pre-career and mid-career students to prepare for employment in education, service agencies, community organizations, government agencies, or businesses. The curriculum also invites students to take advantage of the university's urban setting through integration of selected work experiences with practicum courses and academic seminars under faculty guidance. The curriculum emphasizes theoretical, analytic, and substantive approaches to urban-related problem solving.

**Admission Requirements**

Individuals with at least the equivalent of the department's B.A. or B.S. degree in sociology may be admitted to the Graduate School as candidates for the M.A. degree. Students with bachelor's degrees in fields other than sociology may be admitted to pursue graduate sociology studies under the condition that they make up core deficiencies prior to graduate work.

In addition to meeting the general admission requirements of the Graduate School, a student should ordinarily have:

- A baccalaureate degree with a minimum grade point average of 3.0.
- At least 15 hours in the social sciences, of which 12 should be in upper-level courses.
- Three letters of recommendation from persons qualified to judge the candidate's potential for success in the program.
- A statement describing the applicant's interest in graduate study in sociology.

Students who do not meet these requirements may be provisionally admitted upon approval of the department and the dean of the Graduate School. Admission and financial aid decisions are made on the basis of past academic record, program performance, and career commitment. Students wishing to continue regular employment outside the university may enroll on a part-time basis. Requests for further information about the program should be sent to:

Director of Graduate Studies  
Department of Sociology  
University of Missouri-St. Louis  
One University Blvd.  
St. Louis, MO 63121-4400

**Degree Requirements****Master of Arts in Sociology**

Each student shall prepare an adviser-approved course of study during the first semester of enrollment. Candidates for the M.A. degree shall complete a minimum of 30 hours of approved study, at least 21 of which must be taken in courses offered by the department.

**Core Curriculum**

**5400**, Proseminar in Sociology  
**5402**, Advanced Quantitative Techniques  
**5404**, Advanced Methodology

The sociology department participates in a joint quantitative techniques and methodology series of courses with the other social sciences which can be substituted for the above.

**Concentration** The department offers opportunities for intensive work in one of the several research areas of department faculty members, which allows the flexibility for comprehensive and coherent exposure to the methods and insights of the discipline. Matriculating students are encouraged to plan, with their advisers, a coherent program of studies consistent with their career interests.

**Exit Requirements** A student's program must include one of the following exit projects: a 6-hour internship; **Sociol 5480**, Individual Study or a 6-hour preparatory sequence and an approved paper **Sociol 5490**, Supervised Research. Each candidate is given a final oral review conducted by a faculty committee and focused on the course work completed and the student's chosen exit project or thesis.

**Career Outlook**

The following career information is adapted from the American Sociological Society Web site. For more information, see <http://www.asanet.org/>.

A B.A. or B.S. in sociology is excellent preparation for graduate work in sociology for those interested in an academic or professional career as a professor, researcher, or applied sociologist.

The undergraduate degree provides a strong liberal arts preparation for entry level positions throughout the business, social service, and government worlds. Employers look for people with the skills that an undergraduate education in sociology provides. Since its subject matter is intrinsically fascinating, sociology offers valuable preparation for careers in journalism, politics, public relations, business, or public administration fields that involve investigative skills and working with diverse groups. Many students choose sociology because they see it as a broad liberal arts base for professions such as law, education, medicine, social work, and counseling. Sociology provides a rich fund of knowledge that directly pertains to each of these fields.

The M.A. offers students access to an even wider variety of careers. Sociologists become high school teachers or faculty in colleges and universities, advising students, conducting research, and publishing their work. Over 3000 colleges offer sociology courses. Sociologists enter the corporate, non-profit, and government worlds as directors of research, policy analysts, consultants, human resource managers, and program managers. Practicing sociologists with advanced degrees may be called research analysts, survey researchers, gerontologists, statisticians, urban planners, community developers, criminologists, or demographers. Some M.A. sociologists obtain specialized training to become counselors, therapists or program directors in social service agencies.

Today, sociologists embark upon literally hundreds of career paths. Although teaching and conducting research remains the dominant activity among the thousands of professional sociologists today, other forms of employment are growing both in number and significance. In some sectors, sociologists work closely with economists, political scientists, anthropologists, psychologists, social workers and others reflecting a growing appreciation of sociology's contributions to interdisciplinary analysis and action.

### Course Descriptions

Students who have earned 24 or more semester hours of credit at any accredited post-secondary institutions(s) before the start of the fall 2002 semester must meet the general education requirements stipulated in the UM-St Louis 2001-2002 Bulletin. The following courses fulfill the Social Sciences breadth of study requirements as described in that Bulletin:

1010, 1040, 1999, 2100, 2102, 2103, 2160, 2180, 3200, 3202, 3210, 3214, 3220, 3224, 3230, 3231, 3241, 3245, 3250, 3262, 3264, 3268, 3270, 3278, 3280, 3286, 3290a, 3290b, 3290c, 4040, 4100, 4300, 4310, 4312, 4314, 4316, 4317, 4320, 4331, 4336, 4338, 4340, 4342, 4344, 4646, 4350, 4352, 4354, 4356, 4360, 4361, 4370, 4375, 4378, 4380, 4940

#### **1010 Introduction to Sociology (3) [V, SS]**

An introduction to sociological approaches to human behavior, including types of social organizations, patterns of social interaction, and social influences on individual conduct.

#### **1040 Social Problems (3) [V, SS]**

Conditions defined by society as social problems, as well as potential solutions, are examined from various sociological perspectives. Emphasis is given to problem issues prevalent in metropolitan settings. Analyses focus on victims and beneficiaries of both problem conditions and alternative solutions.

#### **1999 The City (3) [MI, V, SS]**

Same as Pol Sc 1990, and Intdsc 1990. Consideration of economic factors, urban institutions, historical developments in urbanization, problems of the inner city, suburbia and the metropolitan area, ethnic groups, stratification, and psychological implications of urban living. This course is for freshmen and sophomores. It is open to juniors and seniors with the consent of instructor.

#### **2100 Women in Contemporary Society (3)**

Same as WGST 2100. Prerequisite: Sociol 1010 or WGST 2102 or consent of instructor. An introduction to the sociological analysis of the status of women in society, including their work, family, and political roles. Socialization, education, and the women's movement will also be considered, as these affect the position and participation of women in a variety of social arenas.

#### **2102 Introduction to Women's, Studies: Gender, and Diversity (3)**

Same as WGST 2102, Soc Wk 2102, and Hist 2102. This core class is required for all Women's and Gender Studies Certificate earners. This class introduces students to cultural, political, and historical issues that shape gender. Through a variety of disciplinary perspectives in the humanities, social sciences, and natural sciences, the course familiarizes students with diverse female and male experiences and gendered power relationships.

**2103 Gender Roles in Society (3)**

Same as WGST 2103. Prerequisite: Sociol 1010 or WGST 1012 or consent of instructor. The study of social processes through which gender roles are developed and acquired; the impact of gender roles on personal identity and social conduct; the relationship between gender roles and social inequality; and individual and social consequences of changing gender roles in contemporary society.

**2160 Social Psychology (3)**

Same as Psych 2160. Prerequisite: Sociol 1010 or Psych 1003. Study of the interaction between individuals and their social environment. Examination of basic principles, concepts, and methods.

**2170 Aging in America : Concepts and Controversies (3)**

Same as Intdsc 2170 and Geron 2170. This course examines the major theoretical and service issues connected to the study of older adults and their families, using multidisciplinary perspectives. Students are provided with an introduction to the field of aging through an examination of current social issues and controversies. This course emphasizes student involvement through class discussion, and is appropriate for students in the arts and sciences, business, communication, education, and nursing.

**2180 Alcohol, Drugs, and Society (3)**

Same as Crimin 2180 Prerequisite: Sociol 1010 or Psych 1003. This course examines the medical, legal, and social aspects of alcohol and drug use. Medical aspects considered include treatment approaches and the role of physicians in controlling such behavior. In the legal realm, past and present alcohol and drug laws are explored. Cultural and social influences on alcohol and drug use are discussed.

**3200 Sociology of Deviant Behavior (3)**

Prerequisite: Sociol 1010 or consent of instructor. Theories of the nature, causes, and control of deviance as a social phenomenon. Application of theories to specific substantive areas, such as mental disorder, delinquency, drug abuse, suicide, unconventional sexuality, and physical disability.

**3202 Urban Sociology (3)**

Prerequisite: Sociol 1010 or consent of instructor. Urbanization as a world phenomenon; urban social and ecological structures and changing life styles; the decision-making processes in urban problem-solving.

**3210 Sociological Theory (3)**

Prerequisite: Sociol 1010 or consent of instructor. The nature of sociological theory. An investigation of theory from Comte through contemporary developments. Contributions made by theorists in related disciplines.

**3214 Juvenile Delinquency and Youth Crimes (3)**

Prerequisite: Three hours of 2000 level sociology. A theoretical and research-oriented approach to delinquency and youth crime, including types, trends, causation, correction, and prevention.

**3220 Sociological Statistics (3)**

Prerequisites: Sociol 1010 and Math 1020 or 1030. Issues and techniques of statistical analyses relevant to quantitative sociological research, e.g., elementary probability, measurements of central tendency and dispersion, measures of relationships including linear regression and correlation, inferential statistics.

**3224 Marriage and the Family (3)**

Same as Nurse 3224 and WGST 3224. Prerequisite: Sociol 1010 or consent of instructor. The study of patterns of close relationships, and how these relationships are influenced by larger social forces. Topics include: love, dating, mate selection, cohabitation, alternative lifestyles, working families, parenting, single mothers, families in crisis, domestic violence, and divorce. Universal and variable aspects of family organization, family role systems, and changes in family social structure.

**3230 Research Methods (3)**

Prerequisites: Sociol 1010 and satisfaction of mathematics proficiency requirement and Sociol 3220 or consent of instructor. Research planning and interpretation, principles of research design, measurement, and sampling. Techniques for the collection, analysis, and presentation of data. The course also includes an introduction to the Statistical Package for the Social Sciences (SPSS) and lab exercises.

**3241 Selected Topics in Macro-sociology (1-3)**

Prerequisite: Sociol 1010 or consent of instructor. Examination of a specific topic that focuses on large-scale social systems and the structural relationships among social organizations and institutions. May be taken more than once for credit provided the topic of the course is different each time.

**3245 Sociology of South Africa (3) [CD]**

Prerequisite: Sociol 1010 or consent of instructor. An analysis of South African society as a sociocultural system, with attention to its demographic, ecological, and social structures; its distinctive social institutions and life styles; and the social dynamics of modernization, urbanization, and ethnicity. This course satisfies the Cultural Diversity requirement.

**3250 Sociology of Victimization (3)**

Same as WGST 3250. Prerequisites: Sociol 1010. Examines the role of social factors in a wide range of kinds of victimization--crime, violence, natural disasters, accidents, disease, etc. The topic of social reactions to various kinds of victimization is also covered. Sociological theories of victimization are emphasized.

**3262 Social Psychology of Urban Life (3)**

Prerequisites: Sociol 1010 or Psych 1003. Examines how people experience and give meaning to their lives as urban dwellers. Topics include: cognitive maps, crowding, sensory overload, lifestyle diversity, strangers, urban tolerance, social networks, segmentation of personal life, and quest for identity.

**3264 The Sociology of Religion (3)**

Prerequisite: Sociol 1010 or consent of instructor. Religion as a universal social institution, its development, forms, and influence in the world, including Western and Eastern religions. Sociological analysis of the effects of religion upon the individual and societies. Religion, its roles in social change, and contemporary trends.

**3268 The Sociology of Conflict (3)**

Prerequisite: Sociol 1010 or consent of instructor. The conditions under which social conflicts arise, develop, and are terminated (or in some cases resolved) are examined. The functions of different levels of conflict are studied to determine the potential effects and outcomes of planned intervention.

**3270 Socialization (3)**

Prerequisite: Sociol 1010 or consent of instructor. Analysis of the structural and social psychological aspects of roles and the self as a product of social interaction.

**3278 Sociology of Law (3)**

Prerequisite: Sociol 1010 or consent of instructor. A study of law and society with emphasis on the sociological analysis of specific problems of legal doctrines and legal institutions. The law is examined as an instrument of social control through study of the courts, the legal profession, the police, and various social institutions. Consideration is given to law as an instrument of social change.

**3280 Society and Technology (3)**

Prerequisite: Sociol 1010 or consent of instructor. Technology in industrial and post-industrial societies. The social shaping of technological systems. The role of technology in social change.

**3286 Society, Arts, and Popular Culture (3)**

Same as Anthro 3286. Prerequisite: Sociol 1010 or Anthro 1011. The relationship of artists, writers, and musicians; their traditions and modes of artistic expression to variant social structures and institutions; and social pressures and rewards.

**3290a, 3290b, 3290c Undergraduate Seminar in Sociological Issues (3)**

Prerequisites: Sociol 1010 and consent of instructor. Consideration of an issue or area of the instructor's choice not already covered by other undergraduate courses. May be taken up to three times for nine hours of credit, provided the subject matter is different each time the seminar is taken.

**3298 Practicum in Field and Laboratory Research (1-3)**

Prerequisites: Sociol 3220 and Sociol 3230, or consent of instructor. Intensive field or laboratory research to be taken subsequent to, or concurrent with, a specific substantive course. May be taken twice for credit.

**3317 Social Psychology of Conflict and Negotiation (3)**

Same as Psych 3317. Prerequisite: nine (9) hours of Psychology or nine (9) hours of sociology, including Psych 2160 or Sociol 2160. The purpose of this course is to understand how social psychological phenomena affect the processes and outcomes of negotiation and other forms of social conflict. The course is designed to be relevant to the broad spectrum of conflict situations people face in their work and daily lives. A basic premise of this course is that while analytical skills are needed to discover solutions to social problems, negotiation skills are needed in order for these solutions to be accepted and implemented.

**Note: Any 4000 level course taken for major elective credit requires prior completion of two of the following: Sociol 3210, Sociol 3220, or Sociol 3230.**

**4040 Survey Research Practicum (3)**

Same as Econ 4140 and Pol Sc 4040. Prerequisites: Junior standing, Sociol 3220, Sociol 3230, and consent of instructor. The execution of a sample survey, including establishing study objectives, sampling, questionnaire construction, interviewing, coding, data analysis, and presentation of results. May be taken more than once for credit provided the course topic is different each time.

**4300 Communities and Crime (3)**

Same as Crimin 4300. Prerequisite: Crimin 1110, 1120, 1130, 2210, 2220, English 3100 or consent of instructor. Analysis of the sources, consequences, and control of crime within communities. Emphasis on social

and ecological theories of crime and on population instability, family structure, and the concentration of poverty as causes of crime. Community crime prevention efforts are also addressed.

**4310 Selected Topics in Sociological Theory (1-3)**

Prerequisite: Sociol 3210. Focused examination of selected issues, the contributions of individual theorists, and methodological implications in the study of sociological theory. May be taken twice for credit.

**4312 Sociology of Wealth and Poverty (3)**

Prerequisites: Sociol 1010 and junior standing or consent of instructor. Theory and research on social stratification and inequality in contemporary societies.

**4314 Social Change (3)**

Prerequisites: Sociol 1010 and junior standing, or consent of instructor. Theories of social change applied to the analysis of small and large social systems, including the planning of change and projecting of alternative futures.

**4316 Power, Ideology, and Social Movements (3)**

Prerequisite: Sociol 1010 and Junior Standing or consent of instructor. Effect of events and social processes on thought and action in the twentieth century. Social functions of ideologies as expressed in movements and formal and informal organizations seeking social change.

**4320 Forms of Criminal Behavior (3)**

Same as Crimin 4320. Prerequisite: Crimin 1110, 1120, 1130, 2210, 2220, English 3100 or consent of instructor. Examination of major types of criminal behavior including violent, property, public order, and organizational offenses. Emphasis on theories of, and responses to, these crimes.

**4325 Gender, Crime and Justice (3)**

Same as Crimin 4325. Prerequisites: Crimin 1110, 1120, 1130, 2210, 2220, English 3100 or consent of instructor. Analysis of the role of gender in crime and in the justice system. Emphasis on gender differences in crime commission, criminal processing, and the employment of women in criminal justice agencies. Fulfills Crimin diversity requirement.

**4330 Field Research in Crime and Deviance (2-4)**

Prerequisites: Sociol 3214. Students will participate in individual or group research projects involving systematic data collection and sociological analysis concerning the causation or societal reaction to crime, delinquency, or related forms of deviance. One option available to students will be an opportunity to study organizations dealing with juvenile or adult offenders.

**4331 Qualitative Methods in Social Research (3)**

Prerequisite: Sociol 3220 and Sociol 3230, or their equivalent, or consent of instructor. This course is devoted to such qualitative methods as participant observation, intensive interview, content analysis, and oral history, among others. The place of these kinds of techniques in social research, as well as the issues raised by them, will be considered. Students will participate in individual or group research projects using one or more of the methods discussed.

**4336 Organizations and Environments (3)**

Prerequisites: Sociol 1010 and junior standing or consent of instructor. Internal and external forces that influence the structures, adaptive flexibility, and actions of public and private organizations and agencies are examined. Specific foci include: organizational responses to environmental opportunities, constraints, and contingencies; sources of conflict and impediments to organizational goal attainment; and strategies for increasing organizational effectiveness, efficiency, and chances for survival.

**4338 Sociology of Health (3)**

Same as Nurse 4338. Prerequisites: Sociol 1010 and junior standing. Exploration of social dimensions and issues related to health and illness, such as access to the health care delivery system; factors influencing prevention, utilization and compliance; changing relationships among health care providers and consumers; health care costs, trends, and cross-cultural variations.

**4340 Race, Crime, and Justice (3)**

Same as Crimin 4340. Prerequisite: Crimin 1110, 1120, 1130, 2210, 2220, English 3100 or consent of instructor. Analysis of the involvement of racial minorities in crime and the criminal justice system. Emphasis on group differences in offending, processing, victimization, and employment in criminal justice agencies.

**4342 World Population and Ecology (3)**

Prerequisites: Sociol 1010 and junior standing or consent of instructor. Sociological theories and research relating people to their ecological environments. Topics include fertility and population change in the non-Western world. Emphasis is directed to population policies in e.g., Africa and India and China.

**4344 Problems of Urban Community (3)**

Prerequisites: Sociol 1010 and junior standing, or consent of instructor. The urban community as an area of social action and problem solving with emphasis on the sociological aspects of urban problems.

**4350 Special Study (1-10)**

Prerequisite: Consent of instructor. Independent study through readings, reports, and field work.

**4354 Sociology of Business and Work Settings (3)**

Prerequisites: Sociol 1010 and junior standing, or consent of instructor. The sociology of work and occupations in America, Europe, and Asia; organization structures and worker participation; worker attitude, behaviors, and commitment; the socialization of the worker; determinants of worker behavior; social problems of work and business; and the impact of community on work place and business behavior.

**4356 Sociology of Education (3)**

Prerequisite: Sociol 1010 and junior standing, or consent of instructor. Education as a social institution, its role as an agent of socialization, and its effect upon the processes of social change and social mobility. The relationship between the school and its community.

**4360 Sociology of Minority Groups (3)**

Same as WGST 4360. Prerequisites: Sociol 1010 and junior standing or consent of instructor. The study of dominant-subordinate group relations. Religion, ethnicity, race, and gender as factors in the unequal distribution of power.

**4361 Social Gerontology (3)**

Same as Geron 4361. Prerequisites: Sociol 1010 and junior standing, or consent of instructor. Topics include: sociological theories of aging, technological and social change and its effects on the environment of older people, and prejudice and discrimination against the elderly.

**4365 Sociological Writing (3)**

Prerequisites: Sociol 1010, English 3100 and junior standing, or consent of instructor. This course offers directed practice in the interpretation and reporting of sociological research in a wide range of styles, including those appropriate for research reports, journal articles, policy papers, non-technical magazines, books and monographs, as well as oral reports to diverse consumers.

**4370 Selected Topics in Techniques of Sociological Research (1-3)**

Prerequisite: Sociol 3220, 3230, or consent of instructor. The study of a specific research technique used in sociological analyses. May be taken more than once for credit provided the course topic is different each time.

**4375 The Social Psychology of Disabilities (3)**

Prerequisite: Sociol 2160 or Psych 2160 or consent of instructor. Same as Psych 4375. A social Psychological and micro-sociological examination of attitudes and behaviors affecting persons with disabilities. Topics include stigma and empowerment, adaptive behaviors, stereotypes and prejudices, and images of disabilities in popular culture and mythology. The course will address the experience of disability and its social consequences for the lives of persons with disabilities.

**4378 Selected Topics in Social Psychology (1-3)**

Prerequisite: Psych 2160 or Sociol 2160, or consent of instructor. Focused examination of selected issues, concepts, and methods in the study of social interaction. May be taken twice for credit.

**4380 Selected Topics in Social Policy (1-3)**

Prerequisite: Sociol 1010, Junior standing or consent of instructor. Examination of a specific sociological topic of current relevance in the community. May be taken more than once for credit provided the course topic is different each time.

**4385 Internship in Sociology (1-6)**

Prerequisite: Junior standing and consent of instructor. Students participate in supervised placements in a position related to the profession of sociology.

**4646 Demographic Techniques (3)**

Prerequisites: Sociol 3220 and Sociol 3230, or consent of instructor. Practicum experience with computation and analysis of major demographic measures of population size, growth, and shape; fertility; mortality; immigration; emigration; and morbidity. Special attention to comparisons of standard Western and non-Western demographic models, with emphasis on computer modeling.

**4940 Leadership and Management in Nonprofit Organizations (3)**

Same as Soc Wk 4940, Pol Sc 4940, and P P Ad 4940. Prerequisite: Junior standing. Addresses the role and scope of the independent sector in the United States, as well as the leadership and management of nonprofit organizations within that sector. Topics include the economic and political scope of the independent sector the

role of volunteerism in a democratic society, and the role and scope of philanthropy. Topics in voluntary organization management and leadership include: the dynamics, functions and membership structure of NPOs, especially staff-board and other volunteer relations; governance and management of NPOs; resource mobilizations; and program development management and evaluation.

**5400 Proseminar in Sociology (3)**

Required of all entering graduate students in the fall semester of the first year of residency. An overview of the field of contemporary sociology, with emphasis on the major theories, issues, research approaches, and ethical problems in the field today, and an introduction to theory construction, measurement, and design strategies.

**5402 Advanced Quantitative Techniques (3)**

Prerequisite: Sociol 3220 or consent of instructor. A study of advanced quantitative analysis of sociological data, focusing on problems of multivariate analysis, sampling theory and techniques, and the use of electronic data processing in approaching these problems.

**5404 Advanced Methodology (3)**

Prerequisite: Sociol 3230 or consent of instructor. A study of methodological problems on an advanced level, focusing on contemporary issues in the processes of inquiry with particular emphasis on the applicability of different modes of research to various types of theoretical problems. Consideration of ethical problems in social research.

**5406 Research Practicum (3)**

Prerequisites: Sociol 5400 and consent of instructor. Involvement of students in an individual or group project culminating in a report, in order to provide firsthand experience in integration of theoretical concerns, methodological principles, and appropriate research techniques in an empirical study, the subject of which shall be determined in collaboration with the instructor.

**5410 Comparative Social Structures (3)**

Prerequisite: Sociol 5400 or consent of instructor. Social institutions in selected societies are examined in terms of their similarities and differences. Typically, non-American and American social structures such as religion, education, politics, family, and economy are compared, along with population dynamics and change, myths, values, and norms. Societies are selected depending on speciality of faculty and interests of students. May be repeated for credit if the topic is different.

**5415 Foundations of Criminological Theory (3)**

Same as Crim 5415. Prerequisites: Graduate standing and consent of instructor. Examination of the history of criminological thought incorporating the major works of such theorists as Bentham, Beccaria, Marx, Durkheim, Lombroso, Sutherland, and Merton.

**5420 Theories of Conflict (3)**

Prerequisite: Sociol 5400 or consent of instructor. The conflict perspective in sociology is contrasted with consensus models of society. Conflict theorizing is traced from the Classical social thought tradition in Western civilization to its modern Marxist and non-Marxist formulations in contemporary sociology. Ethical implications for social conflict intervention are considered.

**5422 Family and Interpersonal Conflict Resolution (3)**

Prerequisite: Sociol 5420 or consent of instructor. The sources and functions of interpersonal conflict in family and neighborhood settings are analyzed. Mediation and conciliation strategies are developed in relation to primary and secondary structures, role systems, and social change.

**5424 Conflict Management in Organizations (3)**

Prerequisite: Sociol 5420 or consent of instructor. Intrinsic sources of inter- and intraorganizational conflict and related methods of mediation are examined. Conflict management strategies and situational manifestations of conflict are analyzed within the context of antecedent conditions, such as domain dissensus, differential interests and goals, previously unresolved disputes, unbalanced power relations, structural barriers to communications, internal and external competition for resources, and environmental change.

**5426 Community and Regional Conflict Intervention (3)**

Prerequisite: Sociol 5420 or consent of instructor. Community and regional conflicts are examined, with emphasis on paradigms for analyzing power, policy, and social change, and on developing intervention skills through simulation exercises. Intervention roles and approaches, such as mediation, conciliation, arbitration, and advocacy are discussed.

**5430 Policy Mediation Processes (3)**

Prerequisite: Sociol 5426 or consent of instructor. Sociological theories of conflict are applied to public issues and policy-making, with an emphasis on building analysis and practice skills. Processes of mediated problem solving are studied and applied to conflict between jurisdictions, between citizens and governments, and between public and private sectors.

**5432 Survey Research Methods (3)**

Same as Ed Rem 6712, Pol Sc 6406. Prerequisites: An introductory statistics course such as Sociol 3220 or consent of instructor. A course on the principles and procedures for conducting survey research. Topics include: forming questions and scales, survey design, sampling methods, data preparation and analysis, and presentation of results.

**5440 Seminar in Urban Sociology (3)**

Prerequisites: Nine hours of undergraduate course work in sociology and consent of instructor.

**5444 Social Policy and Community Planning (3)**

Prerequisite: Consent of instructor. Analysis of the formulation of policy as a social process with concentration on political as well as technical-rational elements. Relation of social policy formation to planning at the community level and analysis of the elements and dynamics of community planning. Analysis of and exposure to planning agencies in the St. Louis metropolitan area.

**5449 Issues in Retirement (3)**

Same as Geron 5449. Prerequisite: Graduate standing. This course examines macro and micro issues of retirement in the United States--its processes, causes, and consequences--in relation to economic market conditions, demographic changes, and programs and policies that are targeted to support the elderly (e.g., Social Security). It also examines issues relating to older women and retirement.

**5450 Seminar in Social Psychology (3)**

Prerequisites: Nine hours of undergraduate course work in sociology and consent of instructor.

**5451 Negotiating Workplace Conflict (3)**

Same as Mangmt 5612 and P P Ad 6680. Prerequisites: P P Ad/Mangmt. 6600, and Graduate Standing. Examines conflict and cooperation between individuals, groups, and organizations over control of work. A central theme is how this conflict is expressed, controlled, and resolved. Students participate in exercises to learn basics of two-party negotiations.

**5460 Seminar in Deviant Behavior (3)**

Prerequisites: Nine hours of undergraduate course work in sociology and consent of the instructor. Advanced theories of the nature, causes, and control of deviance as a social phenomenon.

**5461 Law and Social Control (3)**

Same as Crimin 6430. Prerequisites: Graduate standing and consent of instructor. Examination of the relationship between law and other social institutions, the values and interests that are expressed in law and shaped by legal structures and processes, and law as an instrument of public policy, social control, and social change.

**5470 Seminar in Sociological Issues (1-3)**

Prerequisites: Nine hours of undergraduate course work in sociology and consent of instructor. Consideration of an issue or area of the instructor's choice not already covered by one of the other 5000 level courses. May be taken up to three times for up to nine hours of credit, provided the subject matter is different each time the seminar is taken.

**5475 Introduction to Evaluation Research Methods (3)**

Same as Psych 5475, P P Ad 6750, and Crimin 5475. Prerequisite: At least one course in research design and statistics at the graduate level. A comparative study of research strategies with regard to data sources, data collection, and modes of analysis that are appropriate for program evaluation research. Attention is given to observational, survey, and quasi-experimental methodologies.

**5476 Research Practicum in Evaluation Research Methods (3)**

Prerequisites: Sociol 5475 and consent of instructor. Instruction in, and supervision of, research design and data collection for evaluation of social-deviance action program research report. Concurrent with on-site participant observation.

**5480 Individual Study (3)**

Prerequisite: Consent of adviser and instructor. Designed to give the student the opportunity to pursue particular interests within the discipline and/or to study areas not currently covered by formal courses. Guided by faculty with appropriate interests. May be taken only twice.

**5490 Supervised Research (1-10)**

Prerequisites: Graduate standing and consent of instructor. Individual supervision of research leading to the preparation of a thesis, research paper, or publishable article, in which the student demonstrates skills in the discipline of sociology.

**5492 Advanced Sociological Theory (3)**

Prerequisite: Sociol 3210 or consent of instructor. Recent and current developments in sociological theory in light of its tradition and methodological issues. The state of modern theory with regard to specific conceptual, substantive, and methodological concerns.

**5495 Sociological Reporting (3)**

Prerequisites: Sociol 5400, Sociol 5402, and Sociol 5404. As part of the M.A. degree exit requirement, the seminar offers directed practice in the interpretation and reporting of sociological data in a wide range of styles, including those appropriate for research reports, journal articles, policy papers, nontechnical magazines, books, and monographs, as well as oral reports to diverse consumers. Ethical dimensions of interpretation and dissemination are explored.

**5498 Advanced Seminar in Gerontology (3)**

Prerequisite: Graduate standing. This course will provide in-depth analysis of specialized topics in Ger which are not covered in required courses. (Course may be repeated for a maximum of nine credits, assuming topics are different.)

**6200 Family Policy (3)**

Same as Pol Sc 6416 and Soc Wk 6200. Prerequisites: Soc Wk 5200 or equivalent or consent of instructor and graduate standing. Examines policy development, implementation and impact of social policies on children, youth, and families. International, national, and state policies that affect basic family needs will be the focus, including topics such as economic support, health care, child care and protection, and child and youth development. Intended and unintended consequences of existing policies on the family will be examined as well as future policy directions.

**6442 Minority Aging (3)**

Same as Geron 6442. Prerequisite: Sociol 4361 or consent of instructor. The experience of aging for racial and ethnic minority elderly will be examined in the context of their families, communities, and society. Key questions concerning minority elderly frame the course, such as the relative importance of culture versus social structure, and the applicability of gerontological theory to the minority aging experience.

**6445 Sociological Dimensions of Chronic Illness (3)**

Same as Geron 6445. Prerequisite: Sociol 5400 or consent of instructor. The consequences of chronic illness for social roles, family and organizational dynamics, and the functioning of society are examined. Chronic illness is presented as both a medical problem and a social phenomenon that is shaped by the changing age structure of society.

**6446 Selected Topics in Health Care Policy (3)**

Same as P P Ad 6460 and Pol Sc 6446. Prerequisite: Consent of instructor. The study of specialized issues and methods relating to health care policy. May be repeated for credit, provided the subject matter is different.

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#### Faculty

**Keith Womer**, Professor, Dean

Ph.D. Pennsylvania State University

**Thomas H. Eysell**, Professor, Associate Dean and Director of Graduate Studies in Business

Ph.D., Texas A & M

**David R. Ganz**, Assistant Professor Emeritus; Associate Dean Emeritus and Director of Undergraduate Studies in Business

M.S. in C., Saint Louis University

**John J. Anderson**, C.P.A., C.M.A., Professor Emeritus, Associate Dean Emeritus

Ph.D., University of Wisconsin-Madison

**Nasser Arshadi**, Professor, Vice Provost for Research

Ph.D., University of Nebraska

**Howard B. Baltz**, Professor Emeritus

Ph.D., Oklahoma State University

**Allan Bird**, Professor, Director, International Business Institute

Ph.D., University of Oregon

**James A. Breugh**, Professor; Coordinator of Management

Ph.D., Ohio State University

**James F. Campbell**, Professor,

Ph.D., University of California, Berkeley

**William P. Dommermuth**, Professor Emeritus

Ph.D., Georgia State University

**Douglas E. Durand**, Professor Emeritus, Dean Emeritus

Ph.D., Washington University

**Hung-Gay Fung**, Professor

Ph.D., Georgia State University

**Michael M. Harris**, Professor

Ph.D., University of Illinois-Chicago

**Marius A. Janson**, Professor

Ph.D., University of Minnesota

**Kailash Joshi**, Professor

Ph.D., Indiana University

**Mary Lacity**, Professor

Ph.D., University of Houston

**Edward C. Lawrence**, Professor; Coordinator of Finance

Ph.D., Pennsylvania State University

**Joseph S. Martinich**, Professor

Ph.D., Northwestern University

**Ray Mundy**, Professor; Director, Center for Transportation Studies

Ph.D., Pennsylvania State University

**Janet Y. Murray**, E. Desmond Lee Professor

Ph.D. University of Missouri-Columbia

**Robert M. Nauss**, Professor; Coordinator of Logistics and Operations Management

Ph.D., University of California, Los Angeles

**David Ricks**, Curator Professor, Emeritus

Ph.D., Indiana University

**David Ronen**, Professor

Ph.D., Ohio State University

**Rajiv Sabherwal**, Curator Professor

Ph.D., University of Pittsburgh

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Ph.D., Northwestern University

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**Robert S. Stich**, Professor Emeritus  
Ph.D., New York University

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Ph.D., Washington University

**Deborah B. Balsler**, Associate Professor  
Ph.D., Cornell University

**Donald H. Driemeier**, Associate Professor Emeritus; Dean Emeritus  
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**Michael T. Elliott**, Associate Professor  
D.B.A., Mississippi State University

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Ph.D., Ohio State University

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Ph.D., University of North Carolina at Chapel Hill

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Ph.D., University of New Orleans

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**Charles R. Kuehl**, Associate Professor Emeritus  
Ph.D., University of Iowa

**Donald R. Kummer**, Associate Professor  
Ph.D., University of Oregon

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Ph.D., University of Chicago

**Dinesh Mirchandani**, Associate Professor  
Ph.D., University of Kentucky

**Stephen R. Moehrle**, C.P.A., Associate Professor  
Ph.D., Indiana University

**Mary Beth Mohrman**, Associate Professor, Coordinator of Accounting  
Ph.D., Washington University

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**Jennifer Reynolds-Moehrle**, C.P.A., Associate Professor  
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**Mahesh Shankarmahesh**, Associate Professor  
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Ph.D., University of South Carolina at Columbia

**James M. Krueger**, C.P.A., Assistant Professor; Vice Chancellor for Managerial & Technological Services  
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**Natalia Mintchik**, Assistant Professor  
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**Erin K. Pellegrini**, Assistant Professor  
Ph.D., University of Miami

**Joseph Rottman**, Assistant Professor  
Ph.D., Washington University

**Pamela S. Stuerke**, Assistant Professor  
Ph.D., Indiana University

**Gaiyan Zhang**, Assistant Professor  
Ph.D., University of California, Irvine

**Robert J. Banis**, Teaching Professor,  
Ph.D., North Carolina State University at Raleigh

**Kenneth W. Locke**, Teaching Professor,  
D.B.A., Indiana University-Bloomington

**Donald C. Sweeney II**, Adjunct Professor; Associate Director, Center for Transportation Studies  
Ph.D., Washington University

**Wayne W. Winter**, Teaching Professor, Assistant Coordinator in Legal and Business Studies  
L.L.M., Washington University

**Daniel Lee Rust**, Assistant Teaching Professor,  
Ph.D., University of Idaho

**James Tiburzi**, Assistant Teaching Professor,  
J.D., University of Illinois-Urbana

**David A. Bird**, Instructor Emeritus  
M.S., Washington University

**Lindell P. Chew**, Instructor  
M.B.A., University of Missouri-Columbia

**John Cox**, Instructor Emeritus  
M.A., University of Missouri-Columbia

**Ottilia Voegtli**, Instructor Emeritus  
M.B.A., University of Missouri-St. Louis

**Michael Brown**, Lecturer  
M.B.A., Walsh College of Accounting & Business Administration

**Joy Dakich**, Lecturer  
M.A., University of Missouri-St. Louis

**Peggy A. Lambing**, Lecturer  
M.B.A., University of Missouri-St. Louis

**William R. Link**, C.P.A., Lecturer  
M.B.A., University of Missouri-Columbia

**Gwen Moore**, Lecturer  
M.B.A., Washington University

**Johnna Murray**, Lecturer  
MAcc., University of Missouri-St. Louis

**Rhonda Tenkku**, Lecturer  
M.B.A., University of Missouri-St. Louis

**Elizabeth W. Vining**, Lecturer  
M.B.A., University of Missouri-St. Louis

### History

The University of Missouri - St. Louis College of Business Administration was established in 1967, and was accredited by AACSB-International six years later, the shortest time on record for any school to receive accreditation of its business program. AACSB-International is the only internationally recognized accrediting agency for business and accounting programs. In 2006, the College of Business Administration received reaccreditation of its business and accounting programs, both undergraduate and graduate.

### Vision

The UM-St. Louis College of Business Administration will become one of the top metropolitan public business schools in the country and be recognized as a leading student-centered provider of quality business education.

### Mission

The College of Business Administration is committed to:

- Provide students a high quality business education at the undergraduate and graduate levels.
- Creating educational value by delivering innovative, cutting-edge curriculum, using both traditional and non traditional delivery methods.
- Conducting and disseminating basic and applied research that advances our understanding of issues relevant to the effective administration of organizations.
- Serving the University, the St. Louis business and not-for-profit communities, the citizens of Missouri, and society at large.

### Values

**Opportunity:** We are committed to providing students an opportunity to excel in a rigorous academic business program.

**Knowledge:** We value the creation, application, and communication of knowledge to advance business disciplines and improve management practices.

**Access:** We strive to ensure that our programs are accessible, consistent with the land-grant mission of the University of Missouri.

**Integrity:** We value high standards of professional and ethical conduct.

**Excellence:** We strive for excellence in our own endeavors and expect it of those with whom we work.

**Community:** We value our ties with the business and not-for-profit communities, and work to create opportunities of mutual benefits.

**Respect:** We endeavor to treat all people with dignity and respect, and to maintain fairness in our interactions with all students, employees and the community.

**Diversity:** We seek to maintain a diverse and involved community of students, faculty, and staff.

**Collegiality:** We seek to provide a collegial climate that fosters positive relationships among students, faculty and staff.

### **College of Business Administration Programs**

#### **Undergraduate Degrees**

Bachelor of Science in Accounting  
Bachelor of Science in Business Administration  
(with emphasis areas available in)  
Finance  
International Business  
Logistics and Operations Management  
Management  
Marketing  
Bachelor of Science in Information Systems

#### **Undergraduate Minors**

Accounting  
Finance  
General Business  
Information Systems  
International Business  
Logistics and Operations Management  
Management  
Marketing

#### **Undergraduate Certificate**

International Business Certificate (see International Studies)

#### **Graduate Degrees**

Master of Accounting

Master of Business Administration  
Accounting  
Finance  
Information Systems  
Logistics and Supply Chain Management  
Management  
Marketing  
Operations Management

Master of Science in Management Information Systems

Ph.D. in Business Administration  
Information Systems  
Logistics and Supply Chain Management

#### **Graduate Certificates**

Graduate Certificate Program in Business Administration  
Graduate Certificate in Human Resources Management  
Graduate Certificate in Logistics and Supply Chain Management  
Graduate Certificate in Marketing Management

#### **Undergraduate Programs**

Detailed information concerning all degree requirements can be found by visiting [The College of Business Undergraduate Advising web site](#).

**Admission Requirements**

At present students entering UM-St. Louis may self declare themselves as "business" students and they are assigned to business as their academic unit. They are advised in business and may take business courses so long as they maintain a minimum campus grade point average of 2.0 and have satisfied the prerequisites for the courses they propose to take.

Beginning in the fall of 2009, students will self declare themselves as "pre-business" students. They will continue to have business as their academic unit and be advised in business, but they will not be formally admitted to the College of Business Administration until they file a formal application for admission.

Formal admission to the College of Business Administration is by application through an academic advisor in the College of Business Administration. Applicants for such admission must meet the following requirements:

- a minimum 2.5 campus grade point average based on a minimum of 12 credit hours completed at UM-St. Louis; and
- completion of the following cluster of courses (or their equivalent) with a minimum 2.0 grade point average in the cluster, with a grade of C- or better in each of these courses (note: all attempts at each course in the cluster will be used in calculating this minimum grade point average):

**Math 1030**, College Algebra

**Math 1100**, Basic Calculus

**Math 1105**, Basic Probability and Statistics

**Econ 1001**, Micro Economics

**Econ 1002**, Macro Economics

**Bus Ad 2400**, Financial Accounting

**Bus Ad 2410**, Managerial Accounting

**Bus Ad 2800**, Information Systems Concepts and Applications

**Bus Ad 2900**, Legal Environment of Business

Students not formally admitted to the College of Business Administration will be limited to no more than 15 hours of upper division business (BA) courses.

**Lower Division Requirements--all degrees--all students**

Each student must complete a 42-hour block of general education coursework fulfilling six goals--three skill goals and three knowledge goals. The skill goals include two courses in communicating, one course in managing information and one course in valuing. The knowledge goals include three courses in the social sciences, three courses in the humanities, and four courses in the combined areas of mathematics and science. All courses must be selected from a list approved by the Faculty Senate of the campus. In many instances courses required by the College of Business Administration for each of its degree programs will satisfy a segment of the general education requirements. A list of courses which fulfill the humanities, social science, and math/science knowledge goals can be obtained in the Office of Undergraduate Academic Advising in the College of Business Administration, 487 Social Sciences and Business (SSB) building; or by visiting our web site.

**Lower Division Non-Business Course Requirements**

Students pursuing any undergraduate business degree must complete the following non-business courses:

**English 1100**, Freshmen Composition (communicating skill goal)

One additional "communicating skills goal" course

**Math 1030**, College Algebra (math/science knowledge goal)

**Math 1100**, Basic Calculus (math/science knowledge goal)

**Math 1105**, Basic Probability and Statistics (math/science knowledge goal)

**Econ 1001**, Principles of Microeconomics (valuing skill goal and social science knowledge goal)

**Econ 1002**, Principles of Macroeconomics (social science knowledge goal)

A science lecture course (math/science knowledge goal)

A cultural diversity course

A course required by the State of Missouri

Three humanities courses (humanities knowledge goal)

Two social science courses (in addition to those above)

**Lower Division Business Course Requirements****Business Administration (BA)**

**2400**, Fundamentals of Financial Accounting

**2410**, Managerial Accounting

**2800**, Information Systems Concepts and Applications

**2900**, Legal Environment of Business

**Upper Division Requirements--all degrees--all students****Upper Division Non-Business Requirement**

**English 3120**, Business Writing, with a minimum grade of C-

**Upper Division Non-Business or Business Requirement**

Two global awareness courses selected from an approved list maintained in the Office of Undergraduate Academic Advising in the College of Business Administration; also available on our [web site](#).

**Upper Division Business Requirements****Business Administration (BA)**

**3300**, Business Statistics

**3320**, Introduction to Operations Management

**3500**, Financial Management

**3600**, Management and Organizational Behavior

**3700**, Basic Marketing

**4219**, Strategic Management

A minimum of 18 additional hours of upper division approved business electives

**Assessment--All degrees--all students**

**Business Administration 4220**, Business Assessment Testing, is administered to all graduating seniors. A "Satisfactory" grade is required for graduation.

**General Degree Requirements--all degrees--all students**

Students must complete a minimum of 120 credit hours for any baccalaureate degree from the College of Business Administration.

Students must complete a minimum of 60 non-business hours.

Students must complete a minimum of 48 hours in business courses.

Students must complete a minimum of 36 hours of upper division business courses.

Students are limited to a maximum of 24 credit hours in any single business discipline beyond core courses.

Students are limited to a maximum of 78 credit hours in business and economics combined .

Students must attain a minimum campus grade point average of 2.0. Grade modification may be used in calculating this grade point average.

Students must attain a minimum business grade point average of 2.0. Grade modification may not be used in calculating this grade point average.

Students seeking an emphasis area or major within the Bachelor of Science in Business Administration degree, Bachelor of Science in Accounting degree, and/or Bachelor of Science in Information Systems degree must attain a minimum grade point average of 2.0 in the emphasis/major. Grade modification may not be used in calculating this grade point average.

A minimum grade of C- is required for each course in the business core (except Bus Ad 4219); for each course which serves as a prerequisite for another course; and for each course in an emphasis area and/or major.

Of the maximum of 18 hours which may be taken on a satisfactory/unsatisfactory graded basis, only 9 hours can be in business, and those are restricted to electives--courses beyond the required business core courses.

Business course prerequisites are enforced by the College of Business Administration and include a minimum campus grade point average of 2.0 as a condition for taking any upper division business course.

Emphasis Areas may be added for up to two years following degree completion.

Each additional degree from the College of Business Administration requires 15 unique hours taken at UM-St. Louis subsequent to completion of the prior business degree.

**Transfer Issues**

Students must complete a minimum of 60 hours from four year, baccalaureate degree granting colleges/universities.

A minimum of 50% of all business course work must be completed at UM-St. Louis.

Students must complete a minimum of 21 graded hours in business courses.

Individuals must complete their last 30 hours in residence at UM-St. Louis.

A minimum of 56 graded hours at UM-St. Louis are required to qualify for consideration for Latin Honors.

Students seeking to use a lower division course to satisfy an upper division business requirement must validate the course being transferred. If successfully validated, the transfer course will waive the need to take the upper division equivalent course at UM-St. Louis, but the course transferred will be counted as lower division; it will not count toward the 36 upper division hours required in business.

Completion of a 42-hour general education block, which is certified by the sending institution as fulfilling its general education requirement, will be viewed as fulfilling UM-St. Louis' general education. However, all lower division courses required as part of a degree program at UM-St. Louis must be completed.

## **Requirements Unique to Specific Degrees in the College of Business Administration**

### **Bachelor of Science in Accounting Degree**

#### **Mission**

To foster excellence in accountancy by:

1. Providing a rigorous educational experience as a framework for lifelong learning to individuals of diverse academic backgrounds
2. Creating, expanding and disseminating knowledge through scholarly activities
3. Serving the academic, professional and business communities

#### **Lower or Upper Division Non Accounting Courses Required**

One of:

**Commun 1030**, Interpersonal Communication I

or

**Commun 1040**, Introduction to Public Speaking

or

**Bus Ad 3100**, Contemporary Business Communications

and one of:

**Phil 1130**, Approaches to Ethics or

**Phil 2254**, Business Ethics

#### **Upper Division Accounting Courses Required**

##### **Business Administration (BA)**

**3401**, Financial Accounting and Reporting I

**3402**, Financial Accounting and Reporting II

**3411**, Cost Accounting

**3441**, Income Taxes

and one of either

**3421**, Accounting Information Systems and Spreadsheet Applications or

**3810**, Information Systems Analysis

See the Office of Undergraduate Academic Advising for alternatives to satisfy the State of Missouri's requirement of 150 hours for eligibility to take the Uniform Certified Public Accounting Examination.

#### **Post-Baccalaureate Certificate in Accounting**

**Prerequisite:** Bachelor's degree (in any subject)

**Prerequisite courses:** Math 1030, Bus Ad 2400, Bus Ad 2410. Math 1030 (College Algebra) is a prerequisite for the required accounting courses. It may be taken concurrently with Bus Ad 2400, but must be completed prior to enrollment in Bus Ad 2410. Bus Ad 2400 (Fundamentals of Financial Accounting) and 2410 (Managerial Accounting) are also prerequisites for the 3000-level accounting courses.

**Required:** Complete 27 hours of accounting courses at the 3000-level or above, at least 15 hours of which are completed at UM-St. Louis. The accounting courses must include the six required courses listed below and three accounting electives. Courses previously completed can be waived upon presentation of appropriate documentation. Waived courses will not count toward the 15-hour residency requirement.

Courses must be completed with a grade of C- or higher. The grade point average for all courses counting toward the Post-Baccalaureate Certificate in Accounting must be 2.0 or higher.

Required courses:

**Bus Ad 3401**, Financial Accounting & Reporting I

**Bus Ad 3402**, Financial Accounting & Reporting II  
**Bus Ad 3411**, Cost Accounting  
**Bus Ad 3421**, Accounting Information Systems  
**Bus Ad 3441**, Income Taxes  
**Bus Ad 4435**, Auditing

Electives (most of these are offered only once a year)

**Bus Ad 3451**, Accounting for Governmental and Not-for-profit Entities  
**Bus Ad 3498**, Business Administration Seminar – Accounting  
**Bus Ad 4401**, Financial Accounting & Reporting III  
**Bus Ad 4402**, Financial Accounting & Reporting IV  
**Bus Ad 4405**, Professional Accounting Research  
**Bus Ad 4441**, Advanced Federal Income Tax and Business Taxation

Notes on qualifying for the CPA exam in Missouri:

Successful completion of the Post-Baccalaureate Certificate in Accounting includes all the accounting courses needed to qualify for the CPA exam in Missouri. However, Missouri law also requires a total of 60 credit hours in business (including the accounting courses). Many students with undergraduate degrees in business have satisfied this requirement. A student who has not satisfied this requirement must take additional business classes in order to qualify for the CPA exam.

In addition, Missouri requires 150 credit hours of college level coursework in order to qualify for the CPA exam. A student who has completed a 120-hour undergraduate business degree and the Post-Baccalaureate Certificate in Accounting will need additional coursework in order to satisfy the 150-hour requirement.

## **Bachelor of Science in Business Administration Degree**

### **General Business**

For those undecided regarding a specific emphasis area, a general business degree option is available. Students must complete a minimum of 18 hours of upper division approved business electives (see comprehensive list of business courses in the course descriptions section of this publication)

### **Emphasis in Finance**

Finance is a multidisciplinary field that combines various concepts from management, economics and accounting with financial techniques to make sound business decisions and solve problems. A minimum of 15 hours of upper division finance electives must be selected from the following

### **Business Administration (BA)**

**3501**, Financial Policies  
**3502**, Treasury Management  
**3503**, Computer Applications in Finance  
**3520**, Investments  
**3521**, Financial Risk Management  
**3522**, Security Analysis  
**3525**, Practicum in Investments  
**3540**, Financial Services Industry and Instruments  
**3541**, Commercial Bank Management  
**3542**, Principles of Real Estate  
**3560**, Practice of Personal Financial Planning  
**3561**, Principles of Insurance  
**3562**, Life Insurance and Employee Benefits  
**3563**, Retirement Planning and Employee Benefits  
**3564**, Estate Planning and Trusts  
**3580**, International Corporate Finance  
**3582**, International Investment  
**3595**, Business Administration Problems – Finance  
**3598**, Business Administration Seminar – Finance  
**3599**, Independent Study (approved)

### **Track Certification**

Students may combine selected courses from the list above, and other specified upper division business electives, to fulfill a designated track with dual objectives of acquiring in depth knowledge, and to prepare and be eligible for various professional certification examinations. Detailed information is available in the Office of Undergraduate Academic Advising. The specific tracks available include

Corporate Finance

Financial Institutions and Services  
 Investment and Portfolio Management  
 Financial Planning  
 Insurance

#### **Emphasis in International Business**

National markets are becoming increasingly integrated. The study of international business focuses on understanding the forces behind this globalization of markets and production.

Twelve (12) hours are required of all individuals seeking an emphasis in International Business:  
 Two of the following courses:

#### **Business Administration (BA)**

**3580**, International Finance  
**3682**, Managing the Global Workforce  
**3780**, International Marketing

Plus two additional approved international business courses other than Bus Ad 3289, the international business practicum. (Lists of approved courses are available in the CoBA student advising office.) Proficiency in a foreign language of international commerce (determined by the College of Business Administration) must be demonstrated - 13 credit hours in one approved language or satisfactory performance on the UM-St. Louis foreign language placement test.

An international experience is encouraged for all parties in the program: such experience is required for those individuals seeking the International Business emphasis through the Pierre Laclède Honors College. (International students in the Honors College program are required to demonstrate a three-month, full-time work experience in the United States.)

#### **Emphasis in Logistics and Operations Management**

This discipline has as its objective to get the appropriate goods or services to the right place, at the right time, in the right quality and quantity—thereby making the greatest contribution to the organization. Students must complete a minimum of 12 credit hours selected from the following:

#### **Business Administration (BA)**

**3395**, Business Administration Problems—Logistics and Operations Management  
**3398**, Business Administration Seminar—Logistics and Operations Management  
**3399**, Independent Study (approved)  
**3843**, Decision Support Systems  
**4312**, Business Forecasting  
**4314**, Multivariate Analysis  
**4321**, Production and Operations Management  
**4322**, Lean Production in Manufacturing and Service Operations  
**4324**, Service Operations Management  
**4326**, Quality Assurance in Business  
**4330**, Business Logistics Systems  
**4350**, Operations Research  
**4354**, Operations Research II  
**4381**, International Logistics & Operations Mgmt

At most, one of the following courses may be counted toward the LOM emphasis area.

#### **Business Administration (BA)**

**3806**, Managerial Applications of Object-Oriented Programming I (programming)  
**3842**, Management of Telecommunications  
**3844**, End-User Computing for Business Applications (programming)

#### **Emphasis in Management**

The study of management focuses on the behavior of individuals and groups in an organizational setting.

Students must complete Bus Ad 3611, Advanced Management and Organizational Behavior, plus 3 courses selected from

#### **Business Administration (BA)**

**3289**, Practicum in International Business  
**3621**, Human Resource Management  
**3622**, Industrial and Labor Relations  
**3623**, Industrial and Organizational Psychology (same as Psychology 3318)  
**3624**, Employee Training and Development  
**3680**, International Management

**3682**, Managing the Global Workforce  
**3684**, The Japanese Management System  
**3685**, Role of the Global Corporation  
**3695**, Business Administration Problems—Management and Organizational Behavior  
**3698**, Business Administration Seminar—Management and Organizational Behavior  
**3699**, Independent Study (approved)  
**4614**, Entrepreneurship/Small Business Management  
**4689**, International Strategic Management

### **Emphasis in Marketing**

Marketing involves the activities needed to facilitate an exchange. This includes selling products, services, or ideas to both individual consumers and business buyers.

Students must complete 5 upper division marketing courses to include the capstone course, Bus Ad 4700, Marketing Management.

## **Bachelor of Science in Information Systems Degree**

### **Mission**

The Information Systems (IS) area endeavors to prepare high-potential students of diverse backgrounds for successful careers in the IS profession. Careers in IS may include programming, systems analysis and design, database administration, end-user support, network administration, and management consulting. The goal is to provide students with the skills to deal with the challenges confronting IS through teaching, research, and service to the profession.

Students are required to complete a minimum of 7 courses beyond required business core courses

Programming – 2 courses (6 hours)

### **Business Administration (BA)**

**3806**, Managerial Applications of Object- Oriented Programming I  
**3816**, Managerial Applications of Object Oriented Programming II

Analysis and Design—2 courses—(6 hours)

### **Business Administration (BA)**

**3810**, Information Systems Analysis  
**4850**, Information Systems Design

Database—1 course (3 hours)

### **Business Administration (BA)**

**3845**, Database Management Systems

Students must complete 2 courses (at least 1 3800-level business Information Systems course) from the following list:

### **Business Administration (BA)**

**3421**, Computer Applications in Accounting  
**3503**, Computer Applications in Finance  
**3721**, Marketing and the Internet  
**3805**, Legacy Systems  
**3815**, Object Oriented Applications in Business  
**3841**, Enterprise Information Systems  
**3842**, Management of Telecommunications  
**3843**, Decision Support Systems  
**3844**, Developing Business Applications in .NET  
**3846**, e-Commerce  
**3847**, Web Design

**3848**, Security and Information Systems

A pre-approved Computer Science Class

Seminars and Independent Studies are restricted to those offered by and approved by the Area faculty and approved by the Area Coordinator

**3898**, Independent Study  
**3899**, Business Administration Problems/Seminar

## **Minors in Business Administration**

### **General Requirements**

All minors are 15 credit hours or 5 courses, including business core courses.

Students must attain a 2.0 grade point average for all courses in the minor.

Students must attain a minimum grade of C- in each course included in the minor.

All courses in the minor must be on a graded basis.

A minimum of 9 credit hours of coursework included in the minor must be taken in residence at UM-St. Louis.

One must complete a baccalaureate degree at UM-St. Louis in order for a minor to be conferred.

A minor may be added for up to two years following completion of the baccalaureate degree

#### **Minor in General Business**

This minor is available only to students seeking a baccalaureate degree outside the College of Business Administration

Five courses selected from

#### **Business Administration (BA)**

**1800**, Computers and Information Systems

**2400**, Fundamentals of Financial Accounting

**2900**, Legal Environment of Business

**3320**, Introduction to Operations Management

**3500**, Financial Management

**3600**, Management and Organizational Behavior

**3700**, Basic Marketing

#### **Minor in Accounting**

Available to all students except those pursuing the Bachelor of Science in Accounting degree. Students must complete:

#### **Business Administration (BA)**

**2400**, Fundamentals of Financial Accounting

**2410**, Managerial Accounting

**plus** any three upper division accounting electives

#### **Minor in Finance**

Available to all students except those pursuing the Bachelor of Science in Business Administration degree. Students must complete:

#### **Business Administration (BA)**

**3500**, Financial Management

**plus** any four upper division finance electives

#### **Minor in Information Systems**

Available to all students except those pursuing the Bachelor of Science in Information Systems degree. Students must complete:

#### **Business Administration (BA)**

**2800**, Information Systems Concepts and Applications

Four of the Following Courses:

**At least three of the courses must be 3800-level IS courses.**

#### **Business Administration (BA)**

**3421**, Accounting Information Systems

**3502**, Computer Applications in Finance

**3721**, Marketing and the Internet

**3805**, Legacy Systems

**3806**, Mgrl. Appl. Of Object Oriented Programming I

**3810**, Systems Analysis

**3815**, Object Oriented Applications in Business

**3816**, Managerial Applications of Object Oriented Program II

**3841**, Enterprise Information Systems

**3842**, Management of Telecommunications

**3843**, Decision Support Systems

**3844**, Developing Business Applications in .NET

**3845, Database Management Systems**

**3846, e-Commerce**

**3847, Web Design**

**3848, Security and Information Systems**

**4850, Information Systems Design**

A pre-approved Computer Science Class

**3895, Business Administration Problems-IS**

**3898, Business Administration Seminar-IS**

**3899, Independent Study in IS**

(Seminars and Independent Studies are restricted to those offered by and approved by the Area faculty and approved by the Area Coordinator.)

**Minor in International Business**

Available to all students except those pursuing the Bachelor of Science in Business Administration degree with an emphasis in International Business. Students must complete any 5 courses in International Business.

**Minor in Logistics and Operations Management**

Available to all students except those pursuing the Bachelor of Science in Business Administration degree. Students must complete:

**Business Administration (BA)**

**3320, Introduction to Operations Management**

plus any four upper division logistics/operations management electives, including no more than one programming course selected from:

**Business Administration (BA)**

**3806, Managerial Applications of Object-Oriented Programming I**

**3844, End-User Computing for Business Applications**

**Minor in Management**

Available to all students except those pursuing the Bachelor of Science in Business Administration degree. Students must complete:

**Business Administration (BA)**

**3600, Management and Organizational Behavior**

**3611, Advanced Management and Organizational Behavior**

plus any 3 upper division management and organizational behavior electives

**Minor in Marketing**

Available to all students except those pursuing the Bachelor of Science in Business Administration degree. Students must complete:

**Business Administration (BA)**

**3700, Basic Marketing**

plus any 4 additional upper division marketing electives

**Minor in Transportation Studies**

Available to all students. (For those pursuing the BSBA degree, this will result in an emphasis in marketing if the marketing capstone course, Bus Ad 4700, Marketing Management, is taken in addition to the requirements listed below. Such individuals will have completed both Bus Ad 3320, Introduction to Operations Management, and Bus Ad 3700, Basic Marketing.)

Students must complete five courses to include:

**Business Administration (BA)**

**3770, Introduction to Transportation**

**3771, Traffic and Transportation Management**

Plus three additional courses selected from:

**Business Administration (BA)**

**3090, Internship in Business Administration**

**3099, Independent Study in Business Administration\***

**3198, Business Administration Seminar: Domestic Transportation**

**3198, Business Administration Seminar: Railroads in American Life**

**3198, Business Administration Seminar: Aviation in American Life**

**3198, Business Administration Seminar: Economics of Transportation**

**3320, Introduction to Operations Management**

**3700, Basic Marketing**

\*No more than one approved independent study course may count towards the minor.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## College of Business Administration Graduate Programs

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### **College of Business Administration Home Page**

The College of Business Administration offers four graduate degrees: the Doctor of Philosophy in Business Administration (Ph.D.) the Master of Business Administration (MBA), the Master of Science in Information Systems (MS in IS), and the Master of Accounting (MAcc). All programs carry the prestigious accreditation of AACSB-International.

### **Admission Requirements**

The admissions decision is based on a combination of factors. Consideration is given to a candidate's academic record, scores on the Graduate Management Admissions Test (GMAT), work and leadership experience, a personal narrative on the application form, and recommendations.

As in most AACSB-accredited graduate business programs, the UM-St. Louis College of Business generally requires Graduate Management Admissions Test (GMAT) scores. Information on the GMAT exam can be obtained from the Office of Graduate Business Studies, or on the Internet at [www.mba.com](http://www.mba.com). The examination tests one's ability to read, understand, and to reason logically with both verbal and quantitative material. The test is not a measure of achievement or business knowledge. Under certain conditions, the applicant may petition for waiver of the GMAT requirement, based on possession of an advanced degree and/or the ability to supply acceptable scores from an equivalent test.

### **Doctor of Philosophy in Business Administration (Ph.D.)**

The Ph.D. program includes emphases in Information Systems (IS) and Logistics & Supply Chain Management (LSCM). This is the only LSCM emphasis in a doctoral business program offered in Missouri and the only IS emphasis in a doctoral business program offered at a public university in Missouri. Courses are taught by full-time, nationally known scholars who have been recognized as one of the most academically prolific faculties in America. The PhD program is designed to prepare scholars who will excel in the national and international marketplace, especially in academic and research organizations, but graduates may also find opportunities in the growing private sector demand for advanced IS and LSCM expertise.

### **Master of Business Administration Program (MBA)**

The MBA is available in three formats: the evening MBA program, the Internet-based Professional MBA program and the International MBA program. All are fully accredited by AACSBInternational - The Association to Advance Collegiate Schools of Business, the premier accrediting body in collegiate business education. The MBA programs are designed to prepare students for administrative and professional positions. They also provide an appropriate foundation for students contemplating doctoral work and eventual careers in college teaching and research. The programs are designed for students who have bachelor's degrees from accredited institutions, including those with undergraduate backgrounds in the sciences, engineering, humanities, or arts. Graduate Business program information is available at the [College of Business Administration website](#).

### **The Evening MBA Program**

The MBA curriculum provides training in the fundamental areas of business administration. The core program is designed to generate a working knowledge of the concepts and interrelationships of four broad categories fundamental to management training:

- The external environment confronting business organizations and management's response to legal, economic, social, and political issues.
- The internal operation of various business organizations and management's role in channeling human behavior to satisfy both personal and organizational goals.
- Basic concepts, terminology, and interaction of the accounting, marketing, finance, information technology and operations management disciplines.
- Quantitative management decision-making models put to use in the context of current management information systems.

The total degree program is integrated by a course in strategy formulation and implementation in the student's last semester. There is no thesis requirement; however, students interested in undertaking an individual research project may earn elective credit by enrolling in a supervised independent study course.

### **Degree Requirements**

Depending on the student's previous background, programs will range from 39 to 54 hours. Coursework must be completed within a six-year period. At least 30 hours of coursework must be taken while enrolled as an MBA candidate at UM-St. Louis.

Candidates must take at least **one** course at either the core level or from the business breadth requirements list in each of the following six areas: accounting, finance, management, marketing, information systems, and logistics and operations management. Also, no more than 15 credit hours may be taken in any one of the six areas. Students are also required to have completed the equivalent of Econ 4105, Quantitative Methods and Modeling in Economics, Business, and the Social Sciences, by the end of their first 15 hours in the program.

### **Required Courses**

The following courses or their equivalents are required of all degree candidates.

#### **General Requirements – 18 hours**

**Econ 4105**, Quantitative Methods and Modeling in Economics, Business, and the Social Sciences

**Bus Ad 5000**, Economics for Managers

**Bus Ad 5100**, Managerial Communication

**Bus Ad 6990**, Strategy Formulation and Implementation

**Log&OM 5300**, Statistical Analysis for Management Decisions

**Bus Ad 5900**, Law, Ethics, and Business

#### **Core Requirements – 18 hours**

**Acctng 5400**, Financial and Managerial Accounting

**Financ 6500**, Financial Management

**Mangmt 5600**, Organizational Behavior and Administrative Processes

**Mrktng 5700**, Contemporary Marketing Concepts

**Inf Sy 5800**, Management Information Systems

**Log&OM 5320**, Production and Operations Management

#### **Business Breadth Requirements – 9 hours**

A student must take a second-level course in three of the following areas:

**Accounting: Acctng 5401**, Financial Reporting and Analysis

**Finance:** Any approved graduate level course beyond **Financ 6500**

**Management: Mangmt:** Any approved graduate level course beyond **Mangmt 5600**

**Marketing:** Any approved graduate level course beyond **Mrktng 5700**

**Information Systems:** Any approved graduate level course beyond **Inf Sy 5800**

**Logistics and Operations Management:** Any approved graduate level course beyond **Log&OM 5320**

#### **Electives**

The student must take a minimum of nine hours of elective courses. A maximum of six hours of electives may be taken at the undergraduate level. Graduate students may be required to complete additional work in these courses. Nine elective hours may be taken outside the College of Business Administration if the student has approval in advance from a graduate adviser for the specific courses desired.

#### **Emphasis Areas**

MBA students may obtain emphasis areas in Accounting, Finance, Information Systems, Logistics and Supply Chain Management, Management, Marketing or Operations Management. In addition to the requirements articulated above, the requirements for each emphasis area are shown below.

#### **Emphasis in Accounting**

MBA students seeking an Emphasis in Accounting must complete a minimum of 12 hours of accounting electives. Of these electives, six hours must be numbered ACCT 5401 or above, and six hours must be numbered BA 4400 or above. ACCT 5400 does not count toward the Emphasis in Accounting. A maximum of 15 hours in any functional area will count toward degree requirements. Only courses that are substantially different from courses taken for credit in a student's undergraduate program will be acceptable. The total number of elective courses required will depend on the number of hours waived. Students must complete at least 39 credit hours to earn the MBA.

#### **Emphasis in Finance**

MBA students seeking an Emphasis in Finance must complete a minimum of 12 hours of Finance electives beyond Financ 6500. A maximum of 15 hours in any functional area will count toward the degree

requirements. One Finance course may apply toward the Business Breadth requirement, and the remainder toward the Elective requirement. The total number of elective courses required will depend on the number of hours waived. Students must complete at least 39 credit hours to earn the MBA degree.

### **Emphasis in Information Systems**

#### **Required Course**

**Inf Sy 5800**, Management Information Systems

#### **Four Courses from the following:**

**Inf Sy 6805**, Applications of Programming for Business Solutions

**Inf Sy 6835**, IT-Enabled Business

**Inf Sy 6836**, Telecommunications; Design & Mangmt

**Inf Sy 6837**, IS/IT Architecture

**Inf Sy 6838**, Business Processes: Design, Management, and Integration

**Inf Sy 6840**, Information Systems Analysis

**Inf Sy 6845**, Database Management Systems

**Inf Sy 6846**, Management of Global Sourcing

**Inf Sy 6847**, IS Financial and Project Management

**Inf Sy 6848**, Knowledge Management & Business Intelligence

**Inf Sy 6850**, Information Systems Design

**Inf Sy 6881**, Management of Transnational IS

**Inf Sy 6891**, Seminar on Advanced IS topics

Guided Internship

A maximum of 1 course outside IS (Courses outside the College of Business must be approved by the IS Area Coordinator)

### **Emphasis in Logistics and Supply Chain Management**

MBA students seeking an Emphasis in Logistics & Supply Chain Management must complete 9 hours from approved courses in addition to Log&OM 5300 and Log&OM 5320. Up to 3 hours may be transferred from another AACSB-accredited graduate program at the discretion of the Area Coordinator of the LOM Area. A maximum of 15 hours in any functional area will count toward the degree requirements. The total number of elective hours required will depend on the number of hours waived. Students must complete at least 39 credit hours to earn the MBA degree.

### **Emphasis in Management**

MBA students seeking an Emphasis in Management may choose one of the tracks specified below. Regardless of the track chosen, one must complete a minimum of 12 hours of Management electives beyond Mangmt 5600. A maximum of 15 hours in any functional area will count toward the degree requirements. The total number of elective courses required will depend on the number of hours waived. Students must take at least 39 credit hours to earn the MBA degree.

#### **General Management Track**

Any 4 Mangmt courses.

#### **Human Resource Management Track**

Mangmt 5621, Managing Human Resources + 3 courses selected from Mangmt 5622, 5623, 5624, 5625.

#### **Emphasis in Marketing**

MBA students seeking an Emphasis in Marketing must complete a minimum of 12 hours of Marketing electives beyond Mrktng 5700, including Mrktng 5701. A maximum of 15 hours in any functional area will count toward the degree requirements. The total number of elective courses required will depend on the number of hours waived. Students must complete at least 39 credit hours to earn the MBA degree.

#### **Emphasis in Operations Management**

MBA students seeking an Emphasis in Operations Management must complete 9 hours from approved courses in addition to Log&OM 5300 and Log&OM 5320. Up to 3 hours may be transferred from another AACSB-accredited graduate program at the discretion of the Area Coordinator. A maximum of 15 hours in any functional area will count toward the degree requirements. The total number of elective hours required will depend on the number of hours waived. Students must complete at least 39 credit hours to earn the MBA degree.

A student cannot receive an emphasis in both Operations Management and Logistics & Supply Chain Management for the same set of courses. An overlap of up to 3 credit hours out of the 9 hours required is allowed.

#### **Previous Education**

Based on a formal review and evaluation by the Office of Graduate Studies in Business, students may be granted waivers of certain courses from the general and core requirements. Waivers depend on the

applicability of prior coursework and the student's performance in these courses. Regardless of the number of courses waived, all students must take at least 39 hours to earn the degree.

### **Professional MBA Program**

A weekend-based Internet-enhanced version of the MBA program exists as an alternative to the traditional part-time evening program. This program is a 48 credit hour program for professionals with busy work or travel schedules. Students meet on campus monthly, with the remainder of the interaction between instructor and students taking place online. Students proceed through the program as part of a cohort group and complete the requirements for the degree in two years.

The first 30 hours of the Internet-based program consist of the same core courses required in the evening program (except for the mathematics and economics requirements, which are treated as prerequisites and must be satisfied prior to starting the program). The remaining 18 hours consist of the following courses:

**Acctng 5401**, Financial Reporting and Analysis  
**Financ 6590**, Seminar in Finance  
**Mangmt 5695**, Seminar in Management  
**Mrktng 5795**, Seminar in Marketing  
**Inf Sy 6891**, Seminar in Management Information Systems  
**Log&OM 6395**, Seminar in Logistics and Operations Management

### **International MBA Program**

An International version of the MBA program also exists as an alternative to the evening MBA program. This program is a two-year, full-time program. Students take courses the first year outside the U.S. at a partner university and then take courses the second year on the University of Missouri – St. Louis campus.

### **International MBA Program Degree Requirements**

In addition to the requirements of the evening MBA program, the International MBA program requires an internship (outside the U.S. for Americans and in the U.S. for all others). The program also requires a proficiency in at least one major commercial language in addition to English as a prerequisite. (Coursework is generally in English). All participants in the International MBA program must meet the same General and Core Requirements as those in the evening MBA program.

### **Master of Science in Information Systems (MS in IS)**

The Master of Science in IS program is designed to provide the technical and managerial knowledge to operate successfully in careers associated with the design, development and management of computer-based information, telecommunications, and Internet applications. The program accommodates students with undergraduate degrees specializing in IS, business, and computer science, as well as students with undergraduate degrees outside business.

### **MS in IS Program Degree Requirements**

The program may require as few as 30 hours for students with undergraduate business degrees from AACSB-accredited institutions. Because of the need to attain general business core competencies as a foundation of the MS in IS requirements, students with no academic business background will be required to take additional hours as outlined below.

### **General Requirements**

All students must meet course requirements in quantitative reasoning, general business and IS. Students must complete a minimum of 30 credit hours beyond the general business core. Of the 30 hours beyond the general business core, at least 24 hours must cover topics beyond Inf Sy 5800 and Inf Sy 6805. Students with a B.S.B.A. with an emphasis in IS or a B.S. in IS from an AACSB-accredited institution may, at the student's discretion, substitute two electives for Inf Sy 5800 and Inf Sy 6805. Waivers may be granted for other courses with appropriate undergraduate course work.

### **Quantitative Reasoning Requirement**

Students are required to have completed by the end of their first semester in the program the equivalent of Econ 4150, Quantitative Methods in Modeling in Economics, Business and the Social Sciences with a grade of C or better. Students are also required to complete the equivalent of Log&OM 5300 Statistical Analysis for Management Decisions with a grade of C or better. These courses do not count towards the graduate degree, but waivers may be granted with appropriate undergraduate course work.

### **General Business Core**

Students must have a B.S. in IS, or a B.S.B.A. with an emphasis in MIS that requires a managerial communication course, and coursework equivalent to at least five of the following courses:

**Bus Ad 5900**, Law, Ethics, and Business  
**Acctng 5400**, Financial and Managerial Accounting  
**Financ 6500**, Financial Management

**Mangmt 5600**, Organizational Behavior and Administrative Processes  
**Mrktng 5700**, Contemporary Marketing Concepts  
**Log&OM 5320**, Production and Operations Management  
**Bus Ad 6990**, Strategy Formulation and Implementation

Students who have not met this prerequisite must complete Bus Ad 5100 Managerial Communication and course work from at least five of the courses listed above.

### **Program Requirements**

#### **A. Basic IS courses 15 credit hours**

**Inf Sy 5800**, Management Information Systems  
**Inf Sy 6805**, Applications of Business Programming  
**Inf Sy 6840**, Information Systems Analysis  
**Inf Sy 6845**, Database Management Systems  
**Inf Sy 6850**, Information Systems Design

#### **B. IS Electives 15 credit hours**

Students choose 5 *elective courses* from the following:

**Inf Sy 6808**, Internet Programming (Java)  
**Inf Sy 6835**, IT-Enabled Business  
**Inf Sy 6836**, Telecommunications: Design & Mangmt  
**Inf Sy 6837**, IS/IT Architecture  
**Inf Sy 6838**, Business Processes: Design, Management, and Integration  
**Inf Sy 6846**, Management of Global Sourcing  
**Inf Sy 6847**, IS Financial & Project Management  
**Inf Sy 6848**, Knowledge Management & Business Intelligence  
**Inf Sy 6881**, Management of Transnational IS  
**Inf Sy 6891**, Seminar on Advanced IS Topics Guided internship

A maximum of 2 courses outside IS. Courses outside the College of Business must be approved by the IS Area Coordinator.

#### **Master of Accounting Program (MAcc)**

The MAcc program prepares students to enter the accounting profession or to further existing accounting careers. It is designed to accommodate both students with undergraduate accounting majors and students with other undergraduate background. It may require as few as 30 credit hours for students with undergraduate accounting degrees.

Because of the need to attain general business and professional accounting core competencies as a foundation for the MAcc requirements, students with no academic business or accounting background will be required to take additional credit hours as outlined below.

#### **General Requirements**

All students must meet course requirements in mathematics, general business, and accounting. Students must complete a minimum of 30 credit hours beyond the general business core and the professional accounting core. At least 15 credit hours in accounting must be completed, including at least 12 credit hours at the graduate level. At least 9 credit hours of the student's 30 credit hour program must be in graduate level non-accounting courses. Of the 30 credit hours beyond the general business and professional accounting core, 21 credit hours must be earned in courses at the graduate level.

#### **Mathematics Background Requirement**

Students are required to have completed by the end of their first semester in the program the equivalent of Economics 4150, Quantitative Methods and Modeling in Economics, Business, and the Social Sciences, with a grade of C or better. Graduate credit is not given for this course but it may be waived with appropriate undergraduate coursework.

#### **General Business Core**

Students must have credit for the equivalent of one 3-hour course in each of the following subject areas: macroeconomics, microeconomics, financial accounting, managerial accounting, marketing, financial management, organizational behavior, and business strategy. These requirements may be met with graduate-level course work or may be waived with appropriate courses taken as an undergraduate.

#### **Professional Accounting Core**

Students must have credit for the equivalent of each of the following three-credit-hour courses. Some of these courses may be taken concurrently with MAcc degree requirements (listed below) or may be waived with appropriate courses taken as an undergraduate.

**Bus Ad 3401**, Financial Accounting and Reporting I

**Bus Ad 3402**, Financial Accounting and Reporting II  
**Bus Ad 3421**, Computer Applications in Accounting  
**Bus Ad 3411**, Cost Accounting  
 or  
**Acctng 5411**, Concepts in Management Accounting  
**Acctng 3441**, Income Taxes

**MAcc Degree Requirements** (minimum: 30 credit hours)

Accounting Courses (minimum: 15 credit hours, 12 credits at the graduate level)

**Bus Ad 4401**, Financial Accounting & Reporting III\*

**Bus Ad 4402**, Financial Accounting & Reporting IV\*

**Bus Ad 4435**, Auditing\*

Research course-At least **one** of the following courses must be completed:

**Acctng 5402**, Professional Accounting Research

**Acctng 5441**, Tax Research

Seminar- At least **one** of the following courses must be completed:

**Acctng 5403**, Seminar in Financial Accounting Theory

**Acctng 6441**, Seminar in Taxation

**Acctng 5435**, Seminar in Auditing

**Accounting Electives** to meet 15 credit-hour and graduate level requirements

**Non-Accounting Courses** (minimum: 9 credit hours at the graduate level)

**Bus Ad 5100**, Managerial Communication\*

**Bus Ad 5900**, Law, Ethics, and Business\*

**Inf Sy 5800**, Management Information Systems\*

**Log&OM 5300**, Statistical Analysis for Management Decisions\*

**Log&OM 5320**, Production and Operations Management\*

Electives may be necessary to meet 9-credit-hour graduate level non-accounting requirements or minimum 30-credit-hour requirement (\*May be waived with appropriate undergraduate courses).

## **Ph.D. in Business Administration**

### **Admissions Requirements**

Admission decisions are made on the basis of past academic record, intellectual ability, GMAT or GRE scores, and career commitment. Applications are accepted from students who have baccalaureate or graduate degrees. Past graduate work may be credited toward degree requirements where appropriate. Applicants must submit:

Official academic transcripts.

Official GMAT or GRE results in fields approved by the College of Business Administration.

Three letters of recommendation (at least two from individuals with earned doctorates).

A statement of objectives for the course of study.

### **Graduate Assistantships**

Stipends for research and teaching assistantships (20 hours per week) are awarded on a competitive basis. Educational fees are waived for graduate assistants.

### **Degree Requirements**

The Ph.D. in the College of Business Administration requires a minimum of 69 course credit hours and a minimum of 6 dissertation credit hours beyond the baccalaureate degree. To ensure sufficient background for doctoral-level courses, students must demonstrate appropriate competence in quantitative reasoning, which is evidenced through completion of Econ 4105 and Bus Ad 5000 or their equivalent. Students must also demonstrate appropriate competence in managerial communication, which is evident through completion of Bus Ad 5100 or equivalent to be determined by the Ph.D. Coordinator.

### **Course Requirements**

The Ph.D. in Business Administration has a common set of requirements in three areas: Business & Research Foundation (Section I), Supporting Field (Section II), and Other Requirements (Section IV). Requirements specific to the area of emphasis are in Section III.

#### **I. Business & Research Foundation Requirement: 27 credit hours (9 courses)**

Students are required to take:

**Inf Sy 5800**, Management Information Systems

**Log&OM 5300**, Statistical Analysis for Management Decisions

**Bus Ad 5900**, Law, Ethics, and Business

**Acctng 5400**, Financial and Managerial Accounting  
**Financ 6500**, Financial Management  
**Mangmt 5600**, Organizational Behavior  
**Mrktng 5700**, Contemporary Marketing Concepts  
**Log&OM 5320**, Production and Operations Management  
**Bus Ad 7300**, Statistical Modeling

The first eight courses 6800, 5300, 5900, 5400, 6500, 5600, 5700, 5320 will normally be waived if students had the courses as part of an UMSL MBA, MS in IS, or MAcc degree, or had equivalent graduate course work at an institution approved by the Graduate Business Programs Office and the Ph.D. Coordinator.

## **II. Supporting Field Requirement: (9 credit hours)**

Students must take 9 credit hours of graduate level courses beyond foundation course work in a supporting field approved by the Ph.D. Coordinator. Supporting fields may include courses within or outside the College of Business Administration and are designed in consultation with the Ph.D. Coordinator.

## **III. Emphasis Area Requirements:**

Students must complete the requirements for one of the emphasis areas.

### **Information Systems Emphasis**

The Information Systems emphasis requirement includes 36 credit hours.

Students are required to take the following ten courses:

**Inf Sy 6805**, Applications of Programming for Business Solutions  
**Inf Sy 6836**, Telecommunications: Design and Management  
**Inf Sy 6840**, Information Systems Analysis  
**Inf Sy 6845**, Database Management Systems  
**Bus Ad 7021**, Qualitative Methods and Philosophical Foundations of Business Administration Research  
**Inf Sy 7890**, Inf Sy Research Seminar  
**Inf Sy 7891**, Quantitative Research Methods in MIS  
**Inf Sy 7892**, Doctoral Seminar in current Information Systems Topics  
**Inf Sy 7893**, Special Topics in MIS  
**Inf Sy 7894**, Theoretical Foundations of Information Systems Research

Students are required to take 6 credit hours (2 courses) (not included elsewhere) from the list of approved elective courses for the IS emphasis.

### **Logistics & Supply Chain Management (LSCM) Emphasis**

The Logistics & Supply Chain Management emphasis requirement includes 33 credit hours.

Students are required to take the following eight courses:

**Mrktng 5770**, Supply Chain Management  
**Log&OM 6330**, Business Logistics Systems  
**Log&OM 6331**, Logistics and Supply Chain Operations Modeling  
**Log&OM 6332**, Logistics and Supply Chain Strategic Modeling  
**Log&OM 6350**, Management Science Methods  
**Log&OM 7381**, International Supply Chain Management  
**Log&OM 7390**, Research Seminar in LSCM  
**Log&OM 7393**, Special Topics in LSCM

Students are required to take nine credit hours (three courses) (not included elsewhere) from the list of approved elective courses for the LSCM emphasis.

## **IV. Other Requirements:**

Upon completion of coursework, students are advanced to candidacy by successfully completing a comprehensive examination in their area of emphasis and a supporting field examination in their chosen area. Students admitted to the program with a relevant Masters degree should pass the comprehensive examination and the supporting field examination within three years of admission to the Ph.D. program. Students admitted to the program with an undergraduate business degree should pass the comprehensive examination and the supporting field examination within four years of admission to the Ph.D. program. Students admitted to the program with an undergraduate degree outside of business should pass the comprehensive examination and the supporting field examination within five years of admission to the Ph.D. program. In these cases, prior coursework will be evaluated for equivalency to Section I course requirements. Exceptions may be made, contingent on approval by the Ph.D. Coordinator.

Students will be evaluated annually for satisfactory progress. Students deemed not to be making adequate progress are subject to the policies of the College of Business Administration regarding continuation of their assistantship. Students deemed not to be making adequate progress are subject to the policies of the

Graduate School and the College of Business Administration regarding probation and dismissal from the program.

Students are required to take a minimum of 6 dissertation credit hours and to defend a dissertation proposal within one year of advancement to candidacy.

Students are required to present one paper at a regional, national, or international conference.

Students are required to submit one paper, approved by his/her dissertation advisor, to a refereed journal.

At least two semesters of supervised teaching in the College of Business Administration are required of all doctoral students.

Students are required to demonstrate competency in teaching during the first year in which they teach in the College of Business Administration. This requirement may be met by successfully completing one or more courses.

Students must satisfy all Graduate School requirements.

The degree is awarded upon successful completion and defense of the Ph.D. dissertation. The dissertation must be defended within three years of approval of a Ph.D. dissertation proposal.

### **Graduate Certificate Programs in Business Studies**

The College of Business Administration offers four 18-hour Graduate Certificates. To be admitted to a graduate certificate program, students must meet the same requirements as those needed for a graduate degree program in business (see Admission Requirements in the Graduate Studies in Business Administration section of this Bulletin).

Certificate programs allow qualified graduate students to pursue an intensive course of study in a specialized business topic without requiring completion of a full graduate business degree program. Certificate programs provide students with the opportunity to obtain the advanced knowledge available through a graduate course of study in relatively brief period.

In order to successfully complete a certificate program, students must earn a 3.0 cumulative GPA in certificate classes. Unless otherwise specified, the coursework must be completed within six years. Students must also comply with all requirements related to matters such as prerequisites, academic probation, and other graduate business program policies.

### **Graduate Certificate Program in Business Administration**

This is an 18-hour program designed to accommodate individuals with an undergraduate/graduate degree in a non-business field seeking core business knowledge. The program emphasizes coursework designed to cover the major disciplines within the field of business. Upon completion, the student will have knowledge of common business theories, practices, and procedures.

To earn the certificate, students must complete six courses as prescribed below. All course prerequisites and all course waivers are applicable. Substitute courses may be approved by the appropriate Area Coordinator and the Director of Graduate Studies in Business. In all cases, 18 hours are needed to complete the graduate certificate.

#### **Program Requirements: (5 courses)**

**Acctng 5400**, Financial and Managerial Accounting

**Mangmt 5600**, Organizational Behavior and Administrative Processes

**Mrktng 5700**, Contemporary Marketing Concepts

**Inf Sy 5800**, Management Information Systems

**One** of the following:

**Financ 6500**, Financial Management

**Log&OM 5320**, Production and Operations Management

#### **Elective Course (1 course):**

**Bus Ad 5100**, Managerial Communication

**Bus Ad 5900**, Law, Ethics and Business

**\*Financ 6500**, Financial Management

**\*Log&OM 5230**, Production and Operations Management

\*Cannot be used as an elective if used as a program requirement.

### **Graduate Certificate in Human Resources Management**

The Graduate Certificate in Human Resources Management is an 18-hour course of study designed to focus on

the multidimensional aspects of personnel operations within business organizations. The course of study emphasizes both formal and informal aspects of human resources management.

#### **Requirements**

Students must complete the following six courses or appropriate substitutes if course waivers are appropriate:

**Mangmt 5600**, Organizational Behavior and Administrative Processes

**Mangmt 5621**, Managing Human Resources

**Mangmt 5623**, Compensation and Benefits

**Mangmt 5222**, Union-Management Relations and Collective Bargaining

**Mangmt 5225**, Selected Topics in Human Resource Management

**Log&OM 5300**, Statistical Analysis for Management Decisions

**Mangmt 5600, Mangmt 5621 and Log&OM 5300** may be waived with equivalent undergraduate courses. If a student is able to waive any or all of these three courses, substitute courses (approved by both the Coordinator of the Management area and the Director of Graduate Studies in Business) will be provided. Substitute courses may include Mangmt 5611, Advanced Organizational Behavior and Administrative Processes, or a course from outside the College of Business Administration. In all cases, 18 hours are needed to complete the Graduate Certificate in Human Resources Management.

#### **Graduate Certificate in Logistics and Supply Chain Management**

The Graduate Certificate in Logistics and Supply Chain Management is an 18-hour program designed to provide a focused, intensive study of important issues within logistics and, more broadly, in supply chain management. Three required courses provide thorough background in operations, logistics and supply chain management. Three elective courses allow specialization in areas such as logistics and supply chain software, international logistics, operations research, e-commerce, and quality. Students must complete the following six courses or approved substitutes if course waivers are appropriate:

#### **Required Courses:**

**Log&OM 5320**, Production and Operations Management

**Log&OM 6330**, Business Logistics Systems

**Mrktng 5770**, Supply Chain Management

#### **Nine additional hours (generally 3 courses) from:**

**Log&OM 5326**, Quality Management

**Log&OM 5312**, Advanced Statistical Methods for Management Decisions

**Log&OM 5354**, Simulation for Managerial Decision Making

**Log&OM 5322**, Lean Production

**Log&OM 5381**, International Logistics and Operations Management

**Log&OM 6331**, Logistics and Supply Chain Operational Modeling

**Log&OM 6332**, Logistics and Supply Chain Strategic Modeling

**Log&OM 6350**, Management Science Methods

**Log&OM 6354**, Advanced Operations Research Topics

**Log&OM 6360**, Advanced Logistics & Operations Management Applications

**Inf Sy 6835**, Electronic Commerce

**Inf Sy 6833**, Decision Support System

**Bus Ad 5333**, Topics in Logistics and Supply Chain Management

**Bus Ad 5301**, Introduction to Geographic Information Systems

**Bus Ad 5198**, Seminar in Business Administration\*

**Bus Ad 5299**, Individual Research\*

\*Subject to approval of the Area Coordinator of the LOM Area.

Substitute courses must be approved by the Coordinator of the LOM Area and the Director of Graduate Studies in Business. In all cases, 18 hours are needed to complete the Graduate Certificate in Logistics and Supply Chain Management.

#### **Graduate Certificate in Marketing Management**

The Graduate Certificate in Marketing Management is an 18-hour program designed to provide a focused intensive study of the marketing management activity within organizations. This program is designed to serve a broad group of marketing managers, including those with an interest in sales, brand management, promotion, and consumer behavior.

#### **Requirements**

Students must complete the following six courses or appropriate substitutes if course waivers are appropriate:

**Mrktng 5700**, Contemporary Marketing Concepts

**Mrktng 5710**, Consumer Motivation and Behavior

**Mrktng 5740**, Marketing and Business Research

**Marketing Management:****Mrktng 5701**, Marketing Planning and Strategy**Mrktng 5720**, Marketing Communications**Mrktng 5730**, Product Planning and Pricing

All course prerequisites and all course waivers are applicable. The Marketing Area Coordinator and the Director of Graduate Studies in Business must approve substitute courses. In all cases, 18 hours (including at least 12 hours in Marketing) are needed to complete the certificate.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## College of Business Administration Course Descriptions - Graduate

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Logistics & Operations Management Management Marketing

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### Accounting

#### **5400 Financial and Managerial Accounting (3)**

This course provides an introduction to accounting, with emphasis on preparation of financial statements for external parties (financial accounting) and accumulation of cost information to aid internal planning and control (managerial accounting). Topics covered include measurement of assets and liabilities, revenues and expenses, the accounting cycle, financial statements, cost terminology, cost behavior, product costing, and relevant costs for decision making. This course provides the necessary background for Acctng 5401 (Financial Reporting Analysis).

#### **5401 Financial Reporting & Analysis (3)**

Prerequisites: Acctng 5400 or the equivalent. This course builds on the foundations covered in Acctng 5400 emphasizing in-depth analysis of published financial statements. The course begins with discussion of the role of financial accounting information in capital markets and contracting, and continues with examination of a number of specific accounting issues. Students are encouraged to look behind the numbers to better understand the economics of the underlying transactions, and properly interpret what the reported numbers mean about a firm's future prospects.

#### **5402 Professional Accounting Research (3)**

Prerequisite: Bus Ad 4401. Discussion of the research tools and methods available to resolve questions concerning accounting standards and practices. Critical analysis of topics of current interest and importance in accounting practice.

#### **5403 Seminar in Financial Accounting (3)**

Prerequisite: Bus Ad 4401. A study of current financial reporting issues. Analysis of current problems and approaches pertaining to the communication of corporate financial information to the U.S. and international investment communities.

#### **5411 Concepts in Management Accounting (3)**

Prerequisites: Math 1100 or Econ 4105 with a minimum grade of "C" and Acctng 5400. The development, interpretation, and uses of accounting reports and supplementary information for management planning, control, and decision-making. Emphasizes the application of relevant cost behavior, control, and traceability concepts in the preparation of internal accounting reports, with a secondary emphasis upon product costing techniques as appropriate to financial accounting needs. Topics include break-even analysis, operational budgeting, direct costing, absorption costing, standard costs and variance analysis, business segment analysis, responsibility accounting, distribution cost accounting, and gross profit analysis.

#### **5412 Accounting Systems for Management Planning and Control (3)**

Prerequisites: Acctng 5411 and Log&OM 5300, or permission of instructor. A study of advanced managerial accounting techniques useful in facilitating the planning and control process in modern organizations. Emphasis on the implementation and administration of these techniques, their integration with management information systems, and the organizational role of the corporate accountant.

#### **5435 Seminar in Auditing (3)**

Prerequisites: Bus Ad 4435 or permission of instructor. A study of advanced auditing and attestation issues,

with an emphasis on operational auditing. Topics include professional ethics, risk analysis, internal control, fraud detection, analytical procedures, determining and assessing operational objectives, and reporting and implementing audit findings.

**5436 Systems Auditing (3)**

Prerequisites: Acctng 5400, Inf Sy 5800, or consent of instructor. Study of techniques involved in the control and audit of computer-based accounting information systems. Emphasis on the review of internal controls at operational and administrative levels and on computer-assisted audit techniques.

**5441 Tax Research (3)**

Prerequisite: Bus Ad 3441 or consent of instructor. A discussion of the research tools and methods available to resolve questions pertaining to the tax laws. Addresses techniques for locating, verifying, and evaluating authority. Students will be expected to complete a number of tax research and writing problems throughout the semester. A basic understanding of the federal income tax law is presumed.

**5446 Advanced Topics in Taxation (3)**

Prerequisites: Bus Ad 3441 and Acctng 5441, or consent of instructor. Addresses various topics selected by the instructor, such as property transactions, compensation plans, charitable contributions, the alternative minimum tax, and tax planning.

**5455 Taxes and Managers' Decisions (3)**

Provides a framework for understanding how taxes impact decisions of both business and individual taxpayers. The framework enables the student to become an effective evaluator of the tax planning strategies being implemented at both the firm and individual level. Students also learn how to quantify the effect taxes have on any transaction in order to maximize the after-tax return on assets or minimize the after-tax cost of financing. Unlike tax law knowledge, that becomes irrelevant when laws are repealed or changed, the analytical skills developed in this course will remain relevant.

**5480 International Accounting (3)**

Prerequisites: Bus Ad 3402. Accounting practices for multinational businesses. Discussion of comparative financial accounting practices, the development of international accounting standards, and managerial accounting practices related to multinational operations.

**5490 Graduate Internship in Accounting (1-3)**

Prerequisites: Three accounting courses at 3000-level or above and consent of supervising faculty member and the area coordinator. The student works in an accounting internship that contains sufficient content and rigor to merit graduate credit. The student's program will be monitored by a member of the Graduate Faculty in Accounting. The course requires several meetings with the faculty advisor and a graduate-level written assignment. The course will be graded on a Satisfactory/Unsatisfactory basis. A student who has previously taken Bus Ad 3490 may not take Acctng 5490.

**5491 Seminar in Advanced Theory and Contemporary Issues in Accountancy (3)**

Prerequisite: Acctng 5403 and Log&OM 5300. Examines the theory underlying accounting practice. The course includes an in-depth analysis of contemporary developments in financial accounting with a succinct overview of accounting research paradigms.

**5499 Individual Research in Accounting (1-3)**

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Accounting under the guidance of a specific professor.

**6441 Seminar in Taxation (3)**

Prerequisite: At least nine hours of Graduate level tax courses including Acctng 5441 or consent of the instructor. Addresses tax policy topics drawing on literature from accounting, economics, and public finance. Other topics of current interest will be selected by the instructor.

**Business Administration Graduate**

**5000 Economics for Managers (3)**

The first portion of this course introduces microeconomic analysis of consumers, firms, and government. The concepts and tools of economic analysis are applied to the production and distribution functions of organizations. The last portion is devoted to the macroeconomic influence of capital markets, the influence of interest rates, inflation, and the business cycle.

**5001 Managerial Economic Analysis (3)**

Prerequisites: Bus Ad 5000 or Econ 1001 and Econ 1002. Microeconomic analysis of consumers, firms, and government. The concepts and mathematical tools of economic analysis are applied to the production and distribution functions of organizations.

**5002 Analysis of National Economic Environment (3)**

Prerequisites: Bus Ad 5000 or Econ 1001 and Econ 1002. The character and functioning of the national economic system; analyzing and forecasting fluctuations in national income and product, employment, and prices; the influence of monetary and fiscal policies. Emphasis is on the acquisition of knowledge concerning forces affecting all business firms.

**5100 Managerial Communication (3)**

An analysis of business writing and speaking, and the communication conventions common in organizations. Emphasis is placed on developing skills critical to career advancement and necessary for effective organizational functioning. A second goal is to prepare students for assignments in other business courses. This course must be taken within the first 12 credit hours of study, preferably in the student's first semester.

**5198 Seminar in Business Administration (3)**

An intensive study of a specific area of business administration of some specific business or economic phenomenon, or a specific problem or theory. Several different courses may be offered under this course number.

**5280 International Business Operations (3)**

Prerequisite: Financ 6580. Functional management within multinational corporations; case studies of operations abroad; and focus on managerial decision making.

**5289 Internship in International Business (3)**

Prerequisites: Consent of IMBA Director Students will apply both their language skills and knowledge of international business by working in an organization located outside the student's country of origin. This course requires students to submit regular evaluations and prepare a research report summarizing their global experience and how it relates to the international business program.

**5290 Current Topics in Business Administration (1)**

Examination of a Business Administration topic of current interest. Instruction by regular graduate faculty, frequently supplemented by outside authorities (practicing managers, government officials, consultants, visiting faculty, etc.). Course may be taken three times for credit.

**5299 Individual Research (1-3)**

Prerequisite: Consent of instructor and graduate director. Special individual research topics under the guidance of a specific professor.

**5450 Governmental Budgeting and Financial Control (3)**

Prerequisite: Completion of the MPPA Computer Proficiency Exam OR demonstrated proficiency with spreadsheets. (Same as P P Ad 6180) A study of municipal and federal financial control and budgeting procedures with emphasis on public policy. The impact of financial control on top management decisions and the effect of budget strategies on the allocations of public funds.

**5900 Law, Ethics, and Business (3)**

Analysis of the relationship between law and business with emphasis on the ability of, and extent to which, governments regulate business activities. Topics covered include the employer-employee relationship, protection of consumers, antitrust regulation, and securities law. Also discussed are ethical issues confronting management of the modern business enterprises.

**5905 Societal, Environmental, and Management Decisions (3)**

Prerequisites: Bus Ad 5000. An examination of the external relationships of a business enterprise with the broad and diverse interests of society. These are government and social forces that sometimes operate counter to the potential dictates of theoretical internal economic policies for an individual organization. The primary objective is to examine the increasingly complex set of interrelationships among business, government, other economic groups, and "the public." A series of major current problems, chosen to raise some of the major issues involved in these interrelationships, and in particular to explore the development of public policy on such problems.

**6990 Strategy Formulation and Implementation (3)**

Prerequisites: Financ 6500, Mangmt 5600, Mrktng 5700, Log&OM 5320 and special consent. Graduate program capstone course examining concepts and methods that integrate functional areas of business. The perspective is that of general management charged with directing the total enterprise. Interactions between the environment, organization, strategy, policies and the implementation of plans are explored. Special emphasis is given to globalization of business and ethical perspectives. This course should be taken during the semester prior to graduation. In no case may it be taken sooner than two semesters prior to graduation.

**7001 Doctoral Research (1-12)**

Prerequisites: Must have Ph.D. Program Director or Area Coordinator approval. Investigation of an advanced nature culminating in preparation for comprehensive examinations and/or development of dissertation

proposal. The course may be repeated.

**7002 Dissertation Research (1-12)**

Prerequisites: Must have Ph.D. Program Director or Area Coordinator approval. Investigation of an advanced nature culminating in the preparation of a doctoral dissertation. The course may be repeated.

**7020 Seminar in Business Administration Teaching (1)**

Prerequisites: Admittance into the Ph.D. Program. This course explores the practice and pedagogy of teaching business administration.

**7021 Qualitative Methods and Philosophical Foundations of Business Administration Research (3)**

Prerequisites: Admittance into the Ph.D. Program. This course investigates the ontology and epistemology of business administration research, particularly as they pertain to qualitative research methods, such as case studies, action research, and ethnomethodology.

**7300 Statistical Modeling (3)**

Prerequisites: Log&OM 5300; Admittance into the Ph.D. Program. Study of the multivariate analytical techniques and their application to the analysis of business systems. Topics include the construction and adaptation of statistical models and extrapolative techniques to accommodate factor interactions, nonlinearities, and periodic effects. Methodologies include multiple regression, ANOVA, the general linear model, MANOVA, structural equation modeling, and time series modeling.

**Finance Graduate**

**5599 Individual Research in Finance (1-3)** Prerequisites: Consent of instructor and graduate director. Special individual research topics in Finance under the guidance of a specific professor.

**6500 Financial Management (3)**

Prerequisites: Acctng 5400 or BA 2400, Log&OM 5300 or Bus Ad 3300, and Bus Ad 5000 or Econ 1001 and Econ 1002. This course provides an in-depth analysis of corporate finance including asset pricing, risk and return, short- and long-term investment decisions, capital structure choices, dividend policy, derivatives, mergers and acquisitions, and a host of other current topics. The material is taught through lectures and problem solving.

**6501 Advanced Financial Management (3)**

Prerequisites: Financ 6500 and Log&OM 5300. Exposure to recent financial management theory through selected readings. Financial management problems are considered by the use of cases and simulation models. An original research project under the supervision of the instructor is required.

**6520 Security Analysis (3)**

Prerequisites: Financ 6500 and Log&OM 5300. An in-depth study of techniques used in evaluating various financial assets as investment opportunities. Financial assets studied include common stock, preferred stock, and fixed income securities. Other related topics such as sources of investment information and current market trends are discussed.

**6521 Introduction to Derivatives (3)**

Prerequisite: Financ 6500. An in-depth study of advanced risk management techniques utilizing futures, forwards, options, swaps and synthetic securities. A broad study of speculative market characteristics will be reviewed in conjunction with a variety of financial innovations. Portfolio management theories combined with mathematical models will be utilized to demonstrate the effects of hedging techniques and portfolio insurance.

**6540 Capital Markets and Financial Institutions (3)**

Prerequisite: Financ 6500 The theory of financial intermediation is discussed in the context of banks, savings and loans, public and private insurance companies, and investment banking. In this framework, the relationship with money and capital markets, markets for corporate control, complex financial contracting, and regulatory environment is developed.

**6541 Commercial Bank Management (3)**

Prerequisite: Financ 6500. This course explores the various bank management techniques required to manage a modern commercial bank in a rapidly changing environment. Topics include asset and liability management, capital adequacy, bank holding companies, profitability, and bank market structure and regulation.

**6542 Real Estate (3)**

Prerequisite: Financ 6500. This course provides a broad introduction to real estate with a focus on legal issues, market analysis, valuation, financing, leasing and investment decisions. Classes are conducted in a standard lecture format with discussion on current topics. No prior knowledge of the industry is required.

**6580 International Finance, Investment, and Commercial Relations (3)**

Prerequisite: Financ 6500. This course provides students with a working knowledge of the international environment relating to the financial and securities markets along with the impact on corporate operations. International risk and tools to control risk are studied in a practical environment that may include cases. Individual research may be required to reinforce the topics studied in the classroom. Class discussion of current issues and related readings are encouraged.

**6581 Seminar in International Investments (3)**

Prerequisite: Financ 6500. This course covers topics related to the determination of exchange rates, international parity relations and portfolio diversification. In addition, methods for using foreign exchange derivatives are explored in their use for hedging exchange rate risk. Learning to read foreign exchange quotes and understanding the functioning of global markets is an integral part of the course material. Each student is assigned a foreign country to study throughout the semester with the completion of a comprehensive project report. A prior investments course is recommended but not required.

**6590 Seminar in Finance (3)**

Prerequisite: Financ 6500. This course incorporates a wide range of advanced topics in finance including, but not limited to, an evaluation of various financial assets as investment opportunities, trends in capital markets, derivatives and management of financial and non-financial firms.

**6591 Finance Internship (1-3)**

Prerequisite: Students must have completed and/or be enrolled in at least 6 credit hours of finance electives and have consent of supervising faculty member and Area Coordinator. Student work in the field of Finance where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are the primary goals. The student's program will be monitored by a Finance faculty member with the student providing a formal report at the end of the project.

**Information Systems Graduate**

**5800 Management Information Systems (3)**

Same as P P Ad 6800. This course provides an overview of the established and contemporary issues related to information systems within organizations. Topics include the practices and tools associated with topics such as the management of IS-based investment projects, the design and implementation of IS, the alignment of IS strategy with organizational strategy, information security and privacy, and gaining a competitive advantage through IS.

**5899 Individual Research in Information Systems (1-3)**

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Information Systems under the guidance of a specific professor.

**6805 Applications of Programming for Business Solutions (3)**

Prerequisite: Econ 4105. This course provides a study of business-oriented programming. A programming language will be introduced and discussed in detail. Emphasis will be on program definition and the use of such programs in business-oriented applications.

**6806 Managerial Applications of Object-Oriented Technologies (3)**

Prerequisite: Inf Sy 6805. This course deals with business-oriented programming in an object-oriented environment. The emphasis will be on program definition, and tools and development in a client-server environment. The course will involve the study of an object-oriented language in addition to object-oriented methodologies for systems development.

**6807 Business Programming and File Systems (3)**

Prerequisite: Inf Sy 6805. The course provides a study of business-oriented programming in a traditional centralized environment. The programming language COBOL will be introduced and studied in detail. Emphasis will be on program definition and the use of file structures in business-oriented applications.

**6808 Internet Programming for Business (3)**

Prerequisite: Inf Sy 6805. Focus on web-based applications development for business. It will begin with the fundamentals of web-based computing, including web client and server interaction, the MIME standard, server and client data frame headers, the CGI standard, and error conditions as they pertain to business applications. In addition, JAVA will be introduced to build web-based GUI-interfaces and back-end servers. Finally, business applications issues such as firewalls, proxy servers and data encryption using secure servers will be included.

**6825 Management Information Systems: Theory and Practice (3)**

Prerequisite: Inf Sy 6800. The course presents and analyzes critically current MIS topics in the context of business organizations. Issues may include: organizational and behavioral concerns, the fit between information systems and organizations, information systems development and implementation, software evaluation and procurement, systems performance, and information systems planning and control.

**6831 Internship in Advanced MIS Applications (3-6)**

Prerequisite: Inf Sy 6840 or permission of instructor. The internship will be a supervised field experience in a US-based business/organization or a US-based international business/organization. Students will be employed off-campus for a 10-16 week period on projects directed by host organization supervisors in consultation with a UM-St. Louis faculty member. The project requires students to apply MIS concepts to a real-world problem. The project does not duplicate, but builds upon material in the MIS curriculum. A professional written report will be required. The course may not be repeated for more than six hours credit.

**6832 Information Systems Strategy (3)**

Prerequisite: Inf Sy 6825. This course presents the management of computer-based information resources in the context of business organizations. Issues may include: management strategies and policies for improving organizational productivity, measurement, evaluation and acquisition of management information services, office automation, end-user computing, computer use in international environments, social organizational perspectives and ethical implications. The course will be taught using cases.

**6833 Decision Support Systems (3)**

Prerequisite: Log&OM 5300. Applications of decision support systems in a business environment are studied. Issues pertaining to maintenance of data, construction of models and provision of supporting technology are explored. Students will analyze, design and implement a managerial decision support system using current development tools.

**6834 Fourth Generation Languages and End User Computing (3)**

Prerequisite: Inf Sy 6805. The course presents fourth generation languages and covers managerial issues of end-user computing. A specific fourth generation language will be introduced and programming applications will be assigned. In addition, the course will explore the problems of providing and managing micro-to-mainframe links, end-user software packages, and security/confidentiality issues.

**6835 IT- Enabled Business (3)**

Prerequisite: Inf Sy 5800. IT-Enables Business focuses on business models, processes, and activities made possible by the internet. The course includes theoretic aspects of e-commerce: consumer relationship management, supply chain management, inventory management, business strategy, auctions, and portals. Issues associated with electronic commerce such as security, privacy, content selection and rating, intellectual property rights, authentication, encryption, acceptable use policies, and legal liabilities are explored. Particular attention is paid to IT-enabled entrepreneurship and business creation, and IT use in small to medium sized enterprises. Case studies drawn from actual business applications will be used to reinforce theory.

**6836 Telecommunications: Design and Management (3)**

Prerequisite: Inf Sy 5800 (may be taken concurrently). The topic of telecommunications is addressed from both a technical and managerial viewpoint. In particular, the course will address issues such as communications components and services, local area network architecture, managerial implementations, organizational issues, and cost/benefit analyses.

**6837 Information Systems Architecture (3)**

Prerequisite: Inf Sy 6836. This course explores a wide range of topics necessary for understanding & managing distributed computing technology. A wide range of infrastructure and "middleware" architectural components will be explored. Finally, the course will provide a framework for understanding the capabilities and shortcomings of various distributed computing architectures, technical standards and their implications for interoperability of components.

**6838 Business Process Design, Management & Integration (3)**

Prerequisites: Inf Sy 5800. Major business processes are identified and analyzed. Issues related to characteristics, goals, benefits and costs of enterprise-wide design, and the role of information technology during the design process are discussed. Workflow automation, process modeling, analysis, automation, and redesign techniques are discussed, including the following: process inputs & entrance criteria, process outputs and exit criteria, feedback mechanisms & process correction, alternate theoretical frames for business process design, and impacts on business process design from socio-cultural forces. Case studies are used to illustrate the concepts.

**6840 Information Systems Analysis (3)**

Prerequisite: Inf Sy 6805. The theory and practice of structured analysis are presented. Topics may include: traditional vs. structured analysis methods, requirements analysis, user/analyst interaction, investigation of existing systems, human/ machine interfaces, CASE tools, and workbenches.

**6845 Database Management Systems (3)**

Prerequisite: Inf Sy 5800. The course introduces the concepts of database management systems for business applications. Issues in database architecture, design, administration, and implementation are covered. Projects are assigned on a mainframe DBMS and a microcomputer-based DBMS to illustrate the concepts and

applications.

**6846 Management of Global Sourcing (3)**

Prerequisite: Inf Sy 5800. Largely fostered by the spread of the Internet, global software development standards, global software packages, and fewer trade restrictions, organizations now regularly source software development, software maintenance, systems upgrades, platform transitions, help desks, and other IS-related work globally. This course covers topics to help organizations manage global sourcing of IS work, including sourcing strategies, sourcing models (captive, joint venture, outsourcing), role of program management offices, supplier selection, engagement models, and special practices required to manage globally dispersed teams. Risk mitigation practices associated with cultural, legal, political, infrastructure, logistical, and human resource issues are also addressed.

**6847 Financial and Project Management (3)**

Prerequisite: Inf Sy 5800. Effective project management ensures that a project is completed on time, within budget, and has high quality. The purpose of this class is to examine the task of project resource management with a focus on IT and services. It will cover conventional aspects of project management, such as the project evaluation, planning, roles, responsibilities, scheduling, and tracking. In addition, this class will examine risk management, change management, critical chain management, build vs. buy analysis, package vs custom solutions, vendor qualification and selection, and the roles of certification in the process. The class will also cover the management of programs or a portfolio of IT projects.

**6848 Knowledge Management and Business Intelligence (3)**

Prerequisite: Inf Sy 5800. Knowledge management (KM) is the process of creating, and drawing value from, an organization's intellectual assets. It deals with how to best leverage the organization's knowledge internally as well as externally. The emphasis on knowledge management within business organizations has risen dramatically in the last few years, to some extent as a result of the rapid progress in information technology capabilities. The course covers the following topics: KM tools, technologies, and systems, including knowledge repositories, knowledge portals, and expert seeker systems, creating and sustaining a knowledge-sharing culture, managing and measuring intellectual capital, managing knowledge in networked organizations, including interorganizational alliances and supply chains, aligning knowledge with business strategy, risks of knowledge loss and knowledge leakage, business intelligence, and social aspects of knowledge management

**6850 Information Systems Design (3)**

Prerequisites: Inf Sy 6840 and Inf Sy 6845. This course builds upon the analysis techniques presented in Inf Sy 6840. It requires the student, usually working in a group, to design and implement a system in a real-world environment. Advanced design concepts are presented to support the students in their project work

**6881 Management of Transnational Information Systems (3)**

Prerequisites: Inf Sy 5800 (may be taken concurrently). The course presents concepts of managing global information technology. Issues covered include: global information technology, systems development, electronic data interchange, cross-border data flows, and national and international information structures. Further topics may include information technology enabled economic development, global outsourcing of information systems services, and social, organizational and ethical implications.

**6890 Management Information Systems Thesis Research (1-6)**

Credit to be awarded upon successful defense of thesis.

**6891 Seminar in Management Information Systems (3)**

Prerequisite: Inf Sy 5800. Topics of current interest in management information systems. Topics may include international information systems, electronic commerce, decision support systems, information systems strategy, telecommunications, and information systems management

**6892 Seminar in Current Management Information System Topics (3)**

Prerequisite: Inf Sy 5800. Advanced topics of current interest in management information systems. Content to be determined each time the course is offered. May be repeated for credit.

**7890 IS Research Seminar (3)**

Prerequisites: Inf Sy 5800; Admittance into the Ph.D. Program. Analysis of the research problems, approaches, and findings of Management Information Systems Research. May be repeated for credit when the subject matter is different.

**7891 Quantitative Research Methods in IS (3)**

Prerequisites: Inf Sy 5800; Admittance into the Ph.D. Program. Analysis of research design and validity of quantitative methods applied to the study of Management Information Systems, including laboratory experiments, sample surveys, and field experiments.

**7892 Doctoral Seminar in Current Information Systems Topics (3)**

Prerequisites: Inf Sy 5800; Admittance into the Ph. D. Program. Theoretical and empirical analysis of topics of

long-term importance to the IS field such as systems analysis and design, systems development and implementation, and database management. A historical perspective of the technical and behavioral issues associated to IS artifacts is provided such that contemporary issues and trends can be appreciated.

**7893 Special Topics in IS (3)**

Prerequisites: Consent of instructor; Admittance into the Ph.D. Program. In-depth analysis of special topics in IS research. May be repeated for credit when the subject matter is different.

**7894 Theoretical Foundations of Information Systems Research (3)**

Prerequisites: Inf Sy 5800, Admittance to the Ph.D. Program. The theoretical foundations of information systems are largely built upon the theories from other disciplines, including the physical sciences, computer science, sociology, psychology, and mathematics. In this course, we survey a variety of theoretical foundations from other disciplines by reading the original works, critical responses to these theories, and representative applications of these theories in the IS domain.

**Logistics and Operations Management Graduate****5300 Statistical Analysis for Management Decisions (3)**

Prerequisites: Inf Sy 5800 (may be taken concurrently) and Econ 4105 with a minimum grade of a C. The role of statistical evidence in the formation of inference and in the selection of strategies in solving business problems is developed. Probability and probability distributions are studied as a basis of statistical inference. An introduction to multivariate analysis is provided, which includes analysis of variance and regression methods.

**5301 Introduction to Geographic Information Systems (3)**

Prerequisites: Log&OM 5300 or equivalent, and consent of instructor. Geographic information systems (GIS) are sophisticated computer-based systems for analysis, capture, presentation and maintenance of geographically referenced data. This course includes extensive use of GIS software and provides a foundation in using GIS for spatial analyses. A range of examples is used to emphasize use of GIS as a tool to support analysis and decision-making.

**5312 Advanced Statistical Methods for Management Decisions (3)**

Prerequisite: Log&OM 5300. The application of statistical methods to managerial problems, forecasting and business research. Topics include the blending of multiple regression and analysis of variance into a general linear model, logistic models, techniques for projecting seasonal time series, and forecasting techniques (ARIMA models) which deal with serially correlated data. Through class presentations, assigned exercises and a major project, students gain experience in constructing explanatory and predictive models for problems in marketing, finance, etc. Students use commercial software (e.g., the Statistical Analysis System) for analyzing data, constructing, models and producing reports.

**5320 Production and Operations Management (3)**

Prerequisite: Log&OM 5300. This course discusses issues related to the creation and delivery of goods and services. Topics include the design of production processes, the layout and location of facilities, forecasting, scheduling, inventory control, queuing, materials planning, and quality control. Analytical techniques such as linear programming are used in studying these problems.

**5322 Lean Production (3)**

Prerequisite: Log&OM 5320. Study of lean production philosophy and techniques in manufacturing and service operations. Topics include process analysis and continuous improvement, set-up reduction, total productive maintenance, kanban scheduling, cellular production, work teams, supplier relations, quality management, and the environmental aspects of production. Cases and a course project will be used to integrate and apply the course material.

**5324 Service Operations Management(3)**

Prerequisite: Log&OM 5320. An examination of methods for designing and operating service delivery systems, such as in the health care, financial transportation, hospitality, and governmental services industries. Topics include process and facility design, facility layout and location, queuing, demand forecasting and management, service quality, staffing, and personal scheduling.

**5326 Quality Management (3)**

Prerequisite: Log&OM 5300 or Stat 4200 or consent of instructor. Same as Math 5370. An applied course on total quality management. Quality improvement approaches are presented and the managerial implications and responsibilities in implementing these approaches are discussed. Topical coverage includes the construction and interpretation of control charts, graphical methods, quality function deployment, robust experiments for product design and improvement, mistake-proofing (poke yoke), the Deming approach, Baldrige award criteria, quality cost audits, worker empowerment and reward systems. Cases involving both business processes and physical processes are used to illustrate successful quality improvement efforts.

**5333 Topics in Logistics and Supply Chain Management (3)**

Prerequisite: Consent of Instructor. This course covers topics in logistics and supply chain management. This may include subjects such as domestic and international transportation, transportation economics, supply chain strategy, logistics system design, procurement, reverse logistics, e-logistics, and information systems for logistics and supply chain management.

**5334 Internship in Logistics and Supply Chain Management (1)**

Prerequisite: Consent of Instructor. Students receive practical experience in the area of logistics or supply chain management. The internship is supervised by a professional in the host organization in consultation with a faculty member.

**5354 Simulation for Managerial Decision Making (3)**

Prerequisite: Log&OM 5320. Introduction to simulation as a managerial decision-making aid. Application of simulation to a number of management science-oriented problems. The course introduces and requires use of a simulation language.

**5381 International Logistics and Operations Management (3)**

Prerequisite: Log&OM 5320. A study of international logistics and operations management strategy, planning and operations. Topics may include multinational logistics and supply chain strategies, global network design and sourcing, international transportation, distribution and operations, import-export, risk management, etc.

**5399 Individual Research in Logistics and Operations Management (1-3)**

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Logistics and Operations Management under the guidance of a specific professor.

**6330 Business Logistics Systems (3)**

Prerequisite: Log&OM 5320 (may be taken concurrently). Analysis of business logistics systems and their role in supply chain management. Covers both design and operation of logistics systems and their components. Topics may include network design, facility location, transportation, vehicle routing, inventory management, customer service, reverse logistics and logistics information systems.

**6331 Logistics and Supply Chain Operational Modeling (3)**

Prerequisites: Log&OM 5320 and Log&OM 6330. A study of the application of leading software packages to modeling problems and issues arising in the operational management of logistics and supply chains. This course covers the economic tradeoffs involved in such decisions, data requirements, operating parameters, and application of software packages to problems such as vehicle routing and scheduling, freight shipments consolidations, cross-docking, and other operational and tactical strategies. This "hands on" course is designed to prepare students for higher-level supply chain analyses and consulting work.

**6332 Logistics and Supply Chain Strategic Modeling (3)**

Prerequisites: Log&OM 5320 and Log&OM 6330. A study of the application of leading software packages to modeling problems and issues arising in the planning and strategic management of logistics networks and supply chains. The course identifies and explores the economic and customer service tradeoffs involved in such networks. Issues such as location of facilities, assignment of production and distribution missions to facilities, identification of sourcing relationships amongst facilities, and identification of cost and customer service consequences of alternative supply chain designs are addressed by the application of commercial software packages to support decision making. This "hands on" course is designed to prepare students for high-level supply chain and analyses and consulting work.

**6340 Experimental and Survey Design and Analysis (3)**

Prerequisite: Log&OM 7310. This course covers the linear model and analysis of variance, including survey design, validity and reliability, design of experiments and applied regression methods. Topics may include analysis of covariance, multiple comparison procedures, cluster analysis and factorial experiment designs.

**6350 Management Science Methods (3)**

Prerequisite: Log&OM 5320. This course provides a working knowledge of management science techniques. It emphasizes analytical approaches to solving business problems, construction of mathematical models, and manipulation of model variables for managerial decision-making. Topics include mathematical programming, including integer and network models, heuristics, and simulation models.

**6354 Advanced Operations Research Topics (3)**

Prerequisite: Consent of instructor. Advanced topics from such areas as mathematical programming, stochastic processes, decision theory, or game theory are studied in depth.

**6360 Advanced Logistics and Operations Management Applications (3)**

Prerequisites: Log&OM 5320 and consent of instructor. Application of analytical techniques to business problems in logistics, operations and supply chain management. After a brief review of techniques and an examination of typical applications reported in the literature, the major portion of the term is spent in

analyzing and solving an actual business problem. A team approach may be used, with groups of students responsible for finding and solving a problem. Primary emphasis is placed on the use of analytical techniques to solve management problems.

**6395 Seminar in Logistics and Operations Management (3)**

Prerequisite: Log&OM 5320. Topics of current interest in logistics and operations management. Topics may include just-in-time and lean production, quality management, manufacturing and service systems, transportation and logistics, quantitative management tools, etc.

**7350 Operations Research-Deterministic Models (3)**

Prerequisites: Math 4200 or equivalent. A study of stochastic methods and models in operations research. Provides an introduction to probabilistic models for decision making under uncertainty. Topics include stochastic processes, queuing theory and models, probabilistic inventory theory and models, Markovian decision problems, simulation and reliability.

**7352 Operations Research-Stochastic Models (3)**

Prerequisite: Math 4450 or equivalent. Same as Math 5350. A study of deterministic methods and models in operations research. This course provides an introduction to operations research and focuses on model building, solution and interpretation of results. Topics include formulation, solution, duality and sensitivity analysis in linear programming, integer programming, network flow models, nonlinear optimization, and dynamic programming.

**7381 International Supply Chain Management (3)**

Prerequisites: Log&OM 5320; Admittance into the Ph.D. Program. A comprehensive examination of international logistics and supply chain management strategies, planning and operations from the firm's perspective. Topics may include multinational logistics and supply chain issues and management strategies, multinational sourcing and network design, transportation issues in international supply chains, multinational distribution and operations, legal and financial issues in import and export, risk identification and management in international supply chains, and the relationship of supply chain management to other activities of international firms.

**7390 Research Seminar in LSCM (3)**

Prerequisites: Log&OM 6330; Admittance into the Ph.D. Program. Analysis of research approaches, and findings in Logistics and Supply Chain Management. May be repeated for credit when the subject matter is different.

**7393 Special Topics in LSCM (3)**

Prerequisites: Consent of instructor; Admittance into the Ph.D. Program. In-depth analysis of special topics in Logistics and Supply Chain Management research. May be repeated for credit when the subject matter is different.

**Management Graduate**

**5600 Organizational Behavior and Administrative Processes (3)**

Same as P P Ad 6600. The theoretical and research contribution of the behavioral sciences to management and administration are examined and applied to selected organizational situations. Areas to be considered from the standpoint of both individual and organizational performance are communication, motivation, conflict, decision-making, goal setting, leadership, organizational design, climate, development, and control. Utilizing a systems perspective, the course attempts to develop in each student an ability to analyze and solve organizational problems.

**5611 Advanced Organizational Behavior and Administrative Processes (3)**

Prerequisite: Mangmt 5600. An in-depth examination of selected organizational and individual theories affecting behavior and operating performance. Organizational structure and design, formal and informal organization, decision making, communications, and motivation are analyzed for their organizational impact. The course seeks to develop further the ability to analyze and evaluate organizational processes and individual behavior.

**5612 Negotiating Workplace Conflict (3)**

Prerequisites: P P Ad/Mangmt 6600, and Graduate Standing (Same as P P Ad & Sociol 5451). Examines conflict and cooperation between individuals, groups, and organizations over the control of work. A central theme is how this conflict is expressed, controlled and resolved. Students will participate in exercises to learn the basics of two-party negotiations.

**5613 Dynamics of Interpersonal Relations (3)**

Prerequisite: Mangmt 5600 or academic background in general psychology. The self-concept, personality dynamics, and mechanisms of adjustment. Catalysts and barriers to effective communication. Examination of the functional relationship between ego-needs, perceptual distortion, and stereotypical thinking. Roleplaying,

the resolution of role-conflict, and objective self-evaluation. The development of cooperation and trust as a prerequisite to effective human relations.

**5614 Managing Organizational Change and Design (3)**

Prerequisite: Bus Ad 5600 (may be taken concurrently) This course examines the ways to manage organizational change to meet the rapid pace of change in the business environment. Cases and current research inform class discussions of different types of restructuring. Topics may include creating learning organizations, designing for innovation, managing growth and downsizing, and building sustainable organizations.

**5621 Managing Human Resources (3)**

Prerequisite: Mangmt 5600. In-depth examination of selected human resource management issues from a contemporary manager's viewpoint. Topics examined include: personnel planning; employee selection; performance appraisal, training, and development; compensation; legal issues; discipline; and labor relations. The course examines these topics as they relate primarily to operational activities in organizations.

**5622 Union-Management Relations and Collective Bargaining (3)**

Prerequisites: Mangmt 5600 and Bus Ad 5900. Primary concern is with the setting and the dynamics of contract negotiation and administration. Emphasis is on the development of insight and understanding of the forces affecting the decisions of the parties to a labor contract within the context of the social, political, and economic environment of the organization. A dynamic approach is taken to examine difficulties that arise in attempting to administer a collectively established relationship between employer and employee.

**5623 Compensation and Benefits (3)**

Prerequisites: Mangmt 5621 and Log&OM 5300. An in-depth study of compensation and benefit programs in organizations. Topics include job evaluation, incentive systems, performance appraisal, and employee benefits. Discussion of relevant laws, such as the Equal Pay Act, is also provided.

**5624 Organizational Training (3)**

Prerequisite: Mangmt 5600 or Mangmt 5621 or permission of department. An intensive study of training and developmental methods/issues in organizations. Topics include needs analysis, learning theory, training techniques, evaluation, and management development. Other topics include memory, training objectives, and training facilities. Projects and exercises are used to supplement reading and lecture.

**5625 Selected Topics in Human Resource Management (3)**

Prerequisites: Mangmt 5621 and Log&OM 5300. This course provides an advanced treatment of selected human resource management topics. Primary focus is on topics such as job analysis, pre-employment screening devices, test validation, and civil rights laws. Other topics, such as performance appraisal, recruitment, promotions, and terminations may be covered. Various class projects may be assigned to supplement readings, lectures, and discussion.

**5626 Leadership Through People Skills (3)**

Prerequisite: Mangmt 5600 (or permission) This seminar will help students learn leadership strategies and develop skill sets that will allow them to: (1) Adapt to different people in appropriate and productive ways; (2) Gain commitment from others through the use of effective people skills; and (3) Develop an awareness of their own current style of management and clearly see its impact on their staff and peers. Students will spend approximately 75 percent of their time "learning by doing" as they engage in and receive feedback on skills practices and role-plays. The seminar culminates with students planning and practicing a "real-life" interaction they will face on the job, thus creating a strong transfer of skills and learning from the seminar back to the workplace.

**5689 International Business Strategies (3)**

Prerequisites: Bus Ad 5000 and Acctng 5400. This course focuses on those managerial issues, which follow from the definition and implementation of corporate strategy for worldwide operations, as distinguished from purely domestic firms or those only marginally involved in international activities. It aims to develop an appreciation for the unique competitive, sociocultural and political environments in which international business takes place and the skills required to deal with these changes.

**5695 Seminar in Management (3)**

Prerequisite: Mangmt 5600. Topics of current interest in management. Possible topics include, human resource management, international management, and entrepreneurship.

**5699 Individual Research in Management (1-3)**

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Management under the guidance of a specific professor.

**Marketing Graduate**

**5700 Contemporary Marketing Concepts (3)**

Prerequisite: Bus Ad 5000. Designed for students with no prior course work in the field of marketing. A wide spectrum of marketing institutions and activities is covered. The impact of marketing on the total firm, the economy, and society in general is assessed. The course is intended to develop and organize the fundamental marketing concepts necessary to an analytical study of consumer behavior, the economic environment, and four managerial aspects of marketing. The acquisition and utilization of marketing research data for problem solving is stressed. Relation and integration of basic marketing knowledge to the successful development of sound marketing policy, planning, and strategy is developed.

**5701 Marketing Planning and Strategy (3)**

Prerequisite: Mrktng 5700. Emphasizes the development of a total marketing program through an analytical study of the marketing-mix, the diagnosis of the business situation, along with the influence of exogenous variables and the development of an effective campus marketing strategy. Stresses importance of an integrated marketing plan and utilizes modern decision-making tools. Supplementary readings, journal articles, and current periodicals are used to place the theoretical framework of the course into the contemporary environment of the market place.

**5710 Consumer Motivation and Behavior (3)**

Prerequisite: Mrktng 5700. An analysis of the socio-psychological foundations of consumer behavior including personality differences, needs and wants, status symbols, social change and mobility, and fads and fashions. Consumer spending and saving habits, product preferences, leisure-time patterns, shopping behavior, and motivation research also are examined for their impact on advertising, selling, and marketing management.

**5720 Marketing Communications (3)**

Prerequisite: Mrktng 5700. Deals with managerial decision making by placing particular emphasis on assimilating and integrating all forms of marketing communication in the development of promotional policies, plans, and procedures. Course approach is analytical rather than descriptive in investigating the areas of advertising, public relations, sales management, packaging, and other forms of demand stimulation.

**5730 Product Planning and Pricing (3)**

Prerequisite: Mrktng 5700. A study of product management focusing on new product development. The steps of the new product development process are covered in detail. Current issues in new product research are discussed. Projects are emphasized and involve the application of several of the key techniques to the student's own new product ideas. Selected pricing topics are also covered, such as measuring consumer price sensitivity.

**5740 Marketing and Business Research (3)**

Prerequisites: Mrktng 5700 and Log&OM 5300. A broad approach to marketing research as a model for acquiring, retrieving, and analyzing decision-making information. Includes market measurement, evaluation of sales, and cost effectiveness, sales forecasting, and primary marketing research studies aimed at solving specific problems. Emphasis is placed also on building a theoretical and analytical framework to provide flexibility in the design of marketing experiments and in judging recent research innovations.

**5760 Marketing Channel Strategy (3)**

Prerequisites: Mrktng 5700 and Log&OM 5320. A study of the marketing institutions involved in the distribution of goods and services, industrial and consumer markets, as well as the establishment and integration of marketing channels. The planning and analysis of the macrodistribution and microdistribution systems which contribute to creation of optimal time and place utility. Some attention is paid to quantitative applications to marketing situations including simulation and logistics.

**5761 Business to Business Marketing (3)**

Prerequisite: Graduate standing or consent of instructor. This course provides graduate students with an understanding of the role of business to business marketing as it pertains to business, government, and institutional customers. The course places a heavy emphasis on buyer-seller interaction embodying business to business marketing. In addition to discussing the standard theories and covering the subject domain of business marketing, the course focuses on the finer aspects of business to business marketing negotiations using exercises and readings. Student groups enact complex industrial buyer-seller negotiations striving to achieve their respective organizational goals.

**5770 Supply Chain Management (3)**

Prerequisite: Consent of Instructor. This course addresses supply chain management and its implications, with a focus on what firms can do to maintain competitiveness in the quickly changing business landscape. Topics may include, but are not limited to, value chain analyses, marketing business-to-business, supply chain analytics, procurement, production, logistics, and inventory management within supply chains.

**5775 Domestic Transportation (3)**

Prerequisite: Graduate standing or consent of instructor. Domestic Transportation is the study of North

American transportation modes, their management and operating characteristics. This graduate course is part of the Mid-West Transportation Consortium where UMSL, along with 5 other Universities, provides guest lecturers that comment on aspects of transportation. UMSL students concentrate on the business aspects of transportation.

**5780 Seminar in International Marketing (3)**

Prerequisite: Bus Ad 5700. An advanced seminar on topics in international or global marketing. Possible topics include the globalization of trade, export marketing, international market opportunity analysis, and negotiation for international marketers. Students who take one version of this course (e.g. globalization of trade) can take a second version of the course (e.g. negotiation for international marketers) with prior permission.

**5795 Seminar in Marketing (3)**

Prerequisite: Mrktng 5700. This course addresses advanced problems in contemporary marketing. Topics may include, but are not limited to, marketing strategy, marketing communications and advertising, product management, consumer behavior, channels of distribution, international marketing, and marketing research.

**5799 Individual Research in Marketing (1-3)**

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Marketing under the guidance of a specific professor.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## College of Business Administration Course Descriptions - Undergraduate

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### College of Business Administration Home Page

Courses in this section are grouped as follows: all undergraduate courses are listed under Business Administration; graduate courses are listed under Accounting, Business Administration, Finance, Information Systems, Logistics and Operations Management, Management and Marketing

The College of Business Administration uses the University course numbering system. A minimum grade of C- shall be required to meet the prerequisite requirement for any course. Prerequisites may be waived only by consent of both the instructor and the area coordinator. A minimum campus GPA of 2.0 is required for admittance to each upper division 3000 and 4000 level Business Administration course.

### **Business Administration (BA)**

#### **1000 Topics in Business Administration (1-3)**

Study of selected special problems in business and administration. May be repeated for credit with different topics. Cannot be included in BSBA program.

#### **1590 Personal Finance for Nonbusiness Majors (3)**

For future professionals who want to learn more about personal finance and how to better manage their resources. The topics include purchasing/leasing cars, home acquisitions, investing in stocks and bonds, mutual funds, retirement planning and health and life insurance. Special emphasis will be on the nontechnical aspects of these issues. Cannot be used for credit in BSBA program.

#### **1800 Computers and Information Systems (3) [MI]**

This course covers the basic concepts of networked computers including the basics of file management on local and remote computers, electronic mail, Internet browsers, and web page development. Students are also exposed to applications used in business for solving problems, communicating, and making informed decisions, including word processors, presentations software, and electronic spreadsheets. Students will also develop business applications using a popular programming language or database management tool. Credit cannot be granted for both Cmp Sc 1010 and Bus Ad 1800.

#### **1804 FORTRAN Programming (3)**

Prerequisite: 1800. A study of the principles of programming digital computers using the FORTRAN language. Credit will not be granted for both 1804 and Cmp Sc 1220.

#### **2000 Topics in Business Administration (1-3)**

Prerequisites: Vary with topic; contact the College of Business Administration. Study of selected special problems in business and administration. May be repeated for credit with different topics.

#### **2400 Fundamentals of Financial Accounting (3)**

Prerequisites: Math 1030 and completion of 27 credit hours Math 1030 may be taken concurrently. This is a one-semester course in financial accounting theory and practice. The primary emphasis is on the corporate financial statements of income, financial position and cash flow—their content and interpretation; and the impact of financial transactions upon them.

#### **2410 Managerial Accounting (3)**

Prerequisites: Math 1030 and Bus Ad 2400. This is an advanced course that goes beyond the scope of a second-semester course in fundamentals of accounting. The development, interpretation, and use of relevant cost behavior, control, and traceability concepts for management planning, controlling, and decision making are emphasized. Topics include: an introduction to product costing, the contribution concept, direct costing, performance standards and variance analysis, responsibility accounting, segment profitability, alternative choice decisions, and capital budgeting.

**2800 Information Systems Concepts and Applications (3)**

Prerequisites: Bus Ad 1800 or satisfactory performance on proficiency exam. This course covers concepts of information systems as they relate to business functions, including web page design and e-commerce, telecommunications, system analysis and design, ethics of information system design and use, information security, foundations of database systems and integrated business information systems. Students will also gain valuable strategies for career development, contact management, and networking.

**2900 Legal Environment of Business (3)**

Prerequisites: Econ 1001 and Bus Ad 2400. An introduction to the nature and meaning of law, sources of law, legal process and institutions. The legal environment of business is defined as: the attitude of the government toward business, the historical development of this attitude; current trends of public control in taxation, regulation of commerce, and competition; freedom of contract, antitrust legislation and its relationship to marketing, mergers, and acquisitions; and labor management relations.

**3090 Internship in Business Administration (1-3)**

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of Business Administration electives and have consent of supervising instructor and Associate Dean. A Business College GPA of at least 2.5 is also required. Students are employed in the field of Business Administration where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are the primary goals. A Business Administration faculty member will monitor the student's program with the student providing a formal writing report at the end of the project. Bus Ad 3090 may not be counted toward the minimum credit hours for any emphasis area.

**3099 Independent Study in Business Administration (1-3)**

Prerequisites: Minimum campus GPA of 2.0 and approval by the supervising professor and the associate dean. Special individual study in business under the supervision of a full-time faculty member.

**3100 Contemporary Business Communication (3)**

Prerequisites: English 1100 or equivalent and a minimum campus GPA of 2.0. (Commun 1040 recommended, but not required.) A forum wherein business writing and speaking skills are addressed. Communication unique to business organizations is critiqued. Emphasis is placed on writing and verbal communication skills necessary to succeed in the business environment.

**3195 Business Administration Problems (1-10)**

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 campus GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

**3198 Business Administration Seminar (1-10)**

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 campus GPA. May be repeated for credit.

**3200 Career Planning (1)**

Prerequisite: A minimum of junior standing and a 2.0 campus GPA. The emphasis of this course will be to assist business students to develop an understanding of themselves as related to employment, to develop an understanding of the world of work, and to integrate these so that effective career decisions can be made.

**3288 Independent Study in International Business(1-3)**

Prerequisites: Minimum campus GPA of 2.0 and approval by the supervising professor and the area coordinator of the specific discipline. Special individual study in international business under the supervision of an approved faculty member.

**3289 Practicum in International Business (3)**

Prerequisites: At least one international business course, 2.0 campus GPA and completion of an approval form. Students will apply both their language skills and knowledge of international business by working for a three-month period in an organization located outside the student's country of origin. This course requires students to prepare a research report summarizing the global experience and how it relates to the international business program.

**3300 Business Statistics (3)**

Prerequisites: Math 1100 and 1105, Bus Ad 1800 and a 2.0 campus GPA. Construction and use of statistical models for business management. Students will learn techniques used for relational analysis and business forecasting and how to apply them in a business context. Tools include CHI-Square tests of statistical independence; analysis of variance; simple linear regression and correlation; multiple linear regression; and extrapolative techniques such as moving averages and exponential smoothing. Emphasis is placed on problem definition, construction of statistical models, analysis of data, and interpretation of results. Computers are used for extensive analyses of case data.

**3320 Introduction to Operations Management (3)**

Prerequisites: A 2.0 campus GPA and either (Econ 1001, Bus Ad 2410, and Bus Ad 3300) or (Math 2000 and STAT 1320). An examination of the concepts, processes, and institutions, which are fundamental to an understanding of manufacturing and service operations within organizations. Emphasis is on the management and organization of operations and upon the application of quantitative methods to the solution of strategic, tactical and operational problems.

**3390 Internship in Logistics and Operations Management (1-3)**

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of LOM electives and have consent of supervising instructor and Area Coordinator. A Business College GPA of at least 2.5 is also required. Students are employed in the field of Logistics and Operations Management (LOM) where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are the primary goals. An LOM faculty member will monitor the student's program with the student providing a formal written report at the end of the project. Bus Ad 3390 may not be counted towards the minimum credit hours for the LOM emphasis.

**3399 Independent Study in Logistics & Operations Management (1-3)**

Prerequisites: Minimum campus GPA of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in logistics and operations management under the supervision of a full-time logistics and operations management faculty member.

**3401 Financial Accounting and Reporting I (3)**

Prerequisites: A minimum 2.0 campus GPA, Math 1030, Bus Ad 2410, and 57 credit hours. Review of the foundations of financial accounting theory and of the financial statement preparation process. Accounting theory and practice related to current assets (except for investments in securities). The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

**3402 Financial Accounting and Reporting II (3)**

Prerequisites: Math 1030 and Bus Ad 3401; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Accounting theory and practice related to topics such as, investments in securities, operational assets, current and long-term liabilities, and leases. The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

**3411 Cost Accounting (3)**

Prerequisites: Math 1030 and Bus Ad 3401; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. The study of the basic principles of cost determination for, and control of, manufacturing and distribution activities. Topics include job-order costing, process costing, cost allocations, and the development and use of standard costs within a system of absorption costing.

**3421 Accounting Information Systems (3)**

Prerequisites: A minimum 2.0 campus GPA. In addition, Math 1030, Bus Ad 1800, 2410, and 3401. Examines the fundamentals of accounting information systems, including hardware and software considerations, internal controls, and transaction processing cycles. Also focuses upon the development of efficient spreadsheets as applied to financial and managerial accounting concepts.

**3441 Income Taxes (3)**

Prerequisites: Math 1030 and either Bus Ad 3401 or Bus Ad 3560; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Fundamentals of federal income taxation. Topics include taxable entities, income, deductions, tax accounting methods, tax basis, and property transactions at both the conceptual and operational levels.

**3451 Accounting for Governmental and Not-for-Profit Entities (3)**

Prerequisites: Math 1030 and Bus Ad 3401; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Principles of fund accounting and financial reporting for governmental and not for profit entities. This course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

**3490 Internship in Accounting (1-3)**

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of Accounting electives at the 3000-level or above and have consent of supervising instructor and Area Coordinator. A Business college GPA of at least 2.5 is also required. Students are employed in the field of Accounting where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. An accounting faculty member will monitor the student's program with the student providing a formal written report at the end of the project.

**3499 Independent Study in Accounting (1-3)**

Prerequisites: Minimum campus GPA of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in accounting under the supervision of a full-time accounting faculty member.

**3500 Financial Management (3)**

Prerequisites: Econ 1002, Math 1105, and Bus Ad 2400, and a 2.0 campus GPA. The study of a firm's need for funds; the institutions, instruments, and markets concerned with raising funds; and the techniques of analysis used to determine how effectively these funds, once raised, are invested within the firm.

**3501 Financial Policies (3)**

Prerequisites: Bus Ad 3500 and a 2.0 campus GPA. The intensification and application of the concepts developed in Bus Ad 3500. Special emphasis is given to the development of top management policies and their application toward complex problems of finance. Techniques for identifying and dealing with these problems before they become acute will be investigated. Cases will be integrated with appropriate outside reading.

**3502 Treasury Management (3)**

Prerequisites: Bus Ad 3500 and a 2.0 campus GPA. The focus of this course is on the role cash management plays in corporate finance. Topics include cash collection and payment systems, forecasting cash flows, electronic fund transfers, check processing, international cash management and managing bank relationships. Students passing the course with a grade of A or B are permitted to take the qualifying exam to become a Certified Cash Manager (CCM) under a special arrangement with the Treasury Management Association. Along with other finance courses, this class prepares students for careers in the treasury departments of major companies or with service providers like banks.

**3503 Computer Applications in Finance (3)**

Prerequisites: Bus Ad 1800, 3500, one 300-level finance course, and a 2.0 campus GPA. Financial problem solving and applications on the microcomputer. A project-oriented course with an emphasis on micro-sed finance projects: present value/IRR analysis, duration, immunization, portfolio optimization, leasing, capital budgeting, financial forecasting, options, and futures.

**3520 Investments (3)**

Prerequisite: Bus Ad 3500 and a 2.0 campus GPA. Financial analysis of debt and equity instruments available on organized exchanges and in less tangible over-the-counter markets. Techniques of such analysis are presented in context with Economic and management circumstances within the company, industry, and Economy.

**3521 Financial Risk Management (3)**

Prerequisites: Bus Ad 3500 and a 2.0 campus GPA. A study of derivative securities (forward contracts, futures, swaps and options) used in financial risk hedging. Emphasis will be placed on financial innovations and methods for tailoring a preferred risk/return trade-off. In addition, a project or a simulation will be utilized to emphasize the effects of risk management on portfolio development.

**3522 Security Analysis (3)**

Prerequisites: Bus Ad 3520 or 3501; a minimum campus GPA of 2.0 and consent of professor. The goal of the course is to provide practical experience for students wishing to become stock analysts for national brokerage firms and the investment industry. Each student will have primary responsibility over one small, publicly traded St. Louis Company. The student is expected to become an expert on this company, its products, its financial condition and performance, competitors and the industry as a whole. This level of expertise is developed by visiting the company's facilities, interviewing executives, analyzing financial statements, and reading relevant research reports including current business periodicals. Each student is required to prepare a comprehensive written report on his or her assigned company.

**3525 Practicum In Investments (1)**

Prerequisite: Bus Ad 3500 and a 2.0 campus GPA. Students will apply their knowledge of stocks and bonds by managing a real dollar portfolio of securities. This course requires that students perform technical and fundamental analysis, prepare research reports, present proposals and participate in group investment decisions. The University's Student Investment Trust provides the money for students to invest. Course may be repeated for credit up to a maximum of 3 credit hours.

**3540 Financial Services Industry and Instruments (3)**

Prerequisites: Bus Ad 3500 and a 2.0 campus GPA. The theory of financial services, instruments, and markets is discussed. In this framework, the valuation consequences of money and capital markets, corporate control, complex contracting, and regulatory environment are developed. Topics also include hedging, interest rate risk, deposit insurance, and financial instruments.

**3541 Commercial Bank Management (3)**

Prerequisites: Econ 1002, Bus Ad 3500, and a 2.0 campus GPA. Corporate finance and microEconomics are applied to matters of importance to commercial bankers. Among the subjects treated are bank-asset portfolio

construction, lending policies, liabilities management, bank capital structure, short-run cash management, financial market rates and flows, and quantitative models for bank management. Commercial bank management is analyzed from an internal viewpoint in terms of what bank managers should look for in asset management and why; what market conditions they should be aware of; and what techniques they can use to meet changing Economic and financial conditions.

**3542 Principles of Real Estate (3)**

Prerequisites: Bus Ad 3500 and a 2.0 campus GPA. As an introduction to the real estate industry, the course broadly explores all phases of acquisition, development and disposal of real property. Topics include legal requirements of contracts, property rights, valuation and appraisal techniques, marketing, brokerage operations and practices, mortgage financing, leasing and property management.

**3560 Practice of Personal Financial Planning (3)**

A minimum campus GPA of 2.0; Bus Ad 3500 or consent of instructor and Area Coordinator. Professional financial planning requires broad knowledge of investments, insurance, income taxation, retirement planning, and estate planning, as well as certification requirements and legal/ethical issues. This course introduces students to the field of financial planning, and provides an integrated overview of the topics listed above. Students interested in the Financial Planning track are encouraged to complete this course prior to taking other courses in the track.

**3561 Principles of Insurance (3)**

Prerequisites: Bus Ad 3500 and 2.0 campus GPA. This is a survey course intended to introduce students to the basic concepts of insurance. Topics include the nature of risks, types of insurance carriers and markets, insurance contracts and policies, property and casualty coverages, life and health insurance, and government regulations. The functions of underwriting, setting premiums, risk analysis, loss prevention, and financial administration of carriers are emphasized.

**3562 Life Insurance (3)**

Prerequisites: Bus Ad 3500 or equivalent and a minimum campus GPA of 2.0. This course explores the life insurance business from the perspective of both the consumer and provider. Coverage will include an analysis of the various types of life insurance products, aspects of life insurance evaluation, reinsurance, underwriting, and uses of life insurance in financial planning. Also included is an examination of the tax, legal, and ethical requirements.

**3563 Retirement Planning and Employee Benefits (3)**

Prerequisites: A minimum campus GPA of 2.0; Bus Ad 3500 or consent of instructor and Area Coordinator. The course is designed to give students an understanding of the retirement planning process. Students will gain an appreciation of the usefulness (and shortcomings) of employee benefits and develop an ability to counsel others on important retirement and employee benefit decisions. Corporate pension and profit sharing plans, self-employed Keough plans, IRA's annuities, health insurance and social security will be discussed.

**3564 Estate Planning and Trusts (3)**

Prerequisite: A minimum campus GPA of 2.0; Bus Ad 3500 or consent of instructor and Area Coordinator. This course will focus on the responsibility of a financial planner in the formulation and implementation of an estate plan. Topics include wills, lifetime transfers, trusts, gifts, estate reduction techniques, tax implications in estate planning, business and inter-family transfers, dealing with incompetency, postmortem techniques, and the role of fiduciaries. Lectures, cases, and guest speakers will be used to stimulate analysis and discussion.

**3580 International Finance (3)**

Prerequisites: Bus Ad 3500 and a 2.0 campus GPA. A study of international financial markets, instruments, portfolio strategies and international financial management. Topics will include international risks, foreign diversification, foreign investment, foreign exchange determination and international working capital management issues. Derivatives are explored as instruments to hedge foreign exchange risk exposure, and special markets are evaluated in the international corporate/investments setting. Cases and/or outside readings may be used to emphasize inter-related issues.

**3581 Business in China (3)**

Prerequisites: A minimum campus GPA of 2.0 and junior standing. Introduces students to the practices of doing business in China. Students will be introduced to the Chinese Economic and business environment. Issues related to trade and foreign direct investment in China will be discussed. The course adopts an innovative approach; utilizing lectures, case analysis, projects, and student presentations.

**3582 International Investment (3)**

Prerequisites: Bus Ad 3500. This course explores the concepts of investing and hedging in international markets. Topics include equity and bond markets, global risk management, portfolio diversification, currency risk, asset pricing, and alternative portfolio strategies. Techniques for using derivatives are discussed in the context of hedging exchange rate risk. Reading foreign exchange quotes and understanding the functioning of

global markets is central to the course. A prior course in investments is recommended but not required.

**3590 Practicum in Finance (1-3)**

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of finance electives and have consent of supervising instructor and Area Coordinator. A Business College GPA of at least 2.5 is also required. Students are employed in the field of finance where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience in a Track area are the primary goals. The student's program will be monitored by a finance faculty member with the student providing a formal written report at the end of the project. Bus Ad 3590 may not be counted toward the minimum 15 credit hours of finance electives for a finance emphasis.

**3599 Independent Study in Finance (1-3)**

Prerequisites: Minimum campus GPA of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in finance under the supervision of a full-time finance faculty member.

**3600 Management and Organizational Behavior (3)**

Prerequisites: Junior standing and a 2.0 campus GPA. This course involves the study of the behavior of individuals and groups in an organizational setting. Specific topics examined include: motivation, leadership, organizational design, and conflict resolution, as well as basic coverage of management principles. In covering these topics, both at classic and current perspectives are provided.

**3611 Advanced Management and Organizational Behavior (3)**

Prerequisite: Bus Ad 3600 and a 2.0 campus GPA. Building upon 3600, this course provides a more detailed examination of motivation, leadership, group process, decision-making, job design, and organizational development. In addition to providing more detail in terms of content, this course provides the student with considerable practical experience through the use of class exercises, case studies, and small group discussions.

**3612 Professional Skills Development (3)**

Prerequisites: A minimum campus GPA of 2.0 and Junior Standing. This course focuses on career management. Topics include job search, interviews, resumes and cover letters, presentation skills, business etiquette, entry strategies, and career alternative.

**3621 Human Resource Management (3)**

Prerequisites: Math 1105 Bus Ad 3600 and a 2.0 campus GPA. In-depth examination of selected human resources management issues from a contemporary manager's viewpoint. Topics examined include: employee selection, performance appraisal, training and development, compensation, legal issues and labor relations.

**3622 Industrial and Labor Relations (3)**

Prerequisite: Bus Ad 3600 and a 2.0 campus GPA. Emphasis is on the dynamic relationship between management, employees, unions, and government as determinants in the efficient and effective use of human resources. Current issues and case materials are used to supplement text and lecture.

**3623 Industrial and Organizational Psychology (3)**

[Same as PSYCH 3318] Prerequisites: PSYCH 2201 or Math 1105, Bus Ad 3600. This course introduces the student to psychological research and theories pertaining to human behavior in the work setting. Topics covered include: selection, performance, appraisal, training, leadership, motivation, job satisfaction and organizational design.

**3624 Employee Training and Development (3)**

Prerequisite: A minimum 2.0 campus GPA. In addition, Bus Ad 3600 or permission of instructor. An intensive study of training in organizations, including needs analysis, learning theory, management development, and development of training objectives and programs. Projects and exercises are used to supplement the readings.

**3680 International Management (3)**

Prerequisites: A minimum 2.0 campus GPA. In addition, Econ 1002 and Bus Ad 3600; or consent of the instructor. A study of international business and management practices. Topics covered include an introduction to international management and the multinational enterprise, the cultural environment of international management, planning in an international setting, organizing for international operations, directing international operations, international staffing, preparing employees for international assignments, and the control process in an international context.

**3682 Managing the Global Workforce (3)**

Prerequisites: A minimum 2.0 campus GPA. In addition, Bus Ad 3600 and at least one of the following: Bus Ad 3611 or Bus Ad 3621 or enrollment in Honors College or consent of instructor. A study of the international dimensions of organizational behavior and human resource management. The course provides an overview of the tools and skills that are necessary to understand and manage people in global organizations. Topics include motivation, leadership, communication, hiring, training, and compensation.

**3684 The Japanese Management System (3)**

Prerequisites: Bus Ad 3600 and a 2.0 minimum campus GPA. This course provides an introduction to various aspects of the contemporary Japanese business system. The emphasis is on interpretation of issues from a managerial perspective. Topics include an overview of Japan's Economic growth, government policies, industrial and financial structure of Japanese business, labor-management relations, internal management practices, international competitive strategies, managing U.S. subsidiaries in Japan, penetrating the Japanese market, Japanese investment in the U.S.A., and current issues in U.S. -Japan Economic relations.

**3685 Role of the Global Corporation (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 3600 or permission of the instructor. The purpose of this course is to create awareness of controversial issues about international business. Students will gain a better understanding of resistance to and criticism of international business and will become better prepared for dealing with these issues and problems.

**3689 International Business and Society (3)**

Encompasses the readings, lectures, company and government agency visits, and cultural visits that comprise annual Country Study Tours, (e.g., Austria, Japan, Thailand, etc.). The program includes 45 contact hours or more of classroom lectures covering aspects of the chosen country's business and society, in-depth pre-departure cross-cultural orientation and training supplemented by briefings on the country's Economy and on U.S. market penetration by the Commercial Service, U.S. Embassy; a briefing by the in-country State of Missouri representative; briefings by host country agencies; company visits and factory tours; and tours of cultural sites. Student evaluation will be based on active participation and on a research paper based on readings, lectures, interviews and field observations.

**3690 Internship in Management (1-3)**

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of Management electives and have consent of supervising instructor and Area Coordinator. A Business College GPA of at least 2.5 is also required. Students are employed in the field of Management where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. A Management faculty member will monitor the student's program with the student providing a formal written report at the end of the project. BA

**3699 Independent Study in Management (1-3)**

Prerequisites: Minimum campus GPA of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in management under the supervision of a full-time management faculty member.

**3700 Basic Marketing (3)**

Prerequisites: Econ 1001, junior standing, and a 2.0 campus GPA. An examination of the character and importance of the marketing process, its essential functions, and the institutions performing them. Attention is focused on the major policies (such as distribution, product, price, and promotion), which underlie the multifarious activities of marketing institutions and the managerial, Economic, and societal implications of such policies.

**3710 Consumer Behavior (3)**

Prerequisites: Bus Ad 3700 and a minimum campus GPA of 2.0. A study of such consumer functions as decision making, attitude formation and change, cognition, perception, and learning. The marketing concepts of product positioning, segmentation, brand loyalty, shopping preference and diffusion of innovations are considered in context with the environmental, ethical, multicultural and social influences on an increasingly diverse American consumer.

**3720 Management of Promotion (3)**

Prerequisite: Bus Ad 3700 and a 2.0 campus GPA. A study of the design, organization, and implementation of the marketing communications mix. Various methods, such as advertising, personal selling, and publicity are analyzed as alternatives for use alone, or in combination, to stimulate demand, reseller support, and buyer preference. Particular topics considered include: media selection, sales promotional, packaging, and selling strategy, and their relationships in the promotion process.

**3721 Internet Marketing (3)**

Prerequisites: Bus Ad 3700 and a minimum campus GPA of 2.0. This course will offer an opportunity to explore the impact of the Internet and information technology on the practice of marketing. The Internet and information technologies have revolutionized the way companies create and maintain exchange relationships between themselves and their customers. Companies, both big and small, are in the process of using the Internet to maximize the scope, effectiveness and efficiency of their existing marketing programs. This course is designed to impart students with an understanding of the range of issues involved in planning and implementing effective marketing and information communication strategies for commercial or not-for-profit organizations. The course's emphasis will not be on actual design of a web site per se, even though the merits

and demerits of different layout types will be discussed. Some of the topics covered include, among others, strategic planning and its tactical implementation in electronic marketing, target market analysis and identification, the Internet's marketing capabilities and limitations, management of customer and supplier relations concerns about privacy and ethics, and understanding how the new technology has had an impact on the field of Marketing.

**3740 Marketing Research (3)**

Prerequisites: Bus Ad 1800, 3700, 3300 and a 2.0 campus GPA. An investigation of the acquisition, presentation, and application of marketing information for management. Particular problems considered are defining information requirements, evaluating research findings, and utilizing information. Statistical methods, models, and/or cases are employed to illustrate approaches to marketing intelligence problems, such as sales forecasts, market delineation, buyer motives, store location, and performance of marketing functions.

**3741 Quantitative Marketing Methods (3)**

Prerequisites: Bus Ad 1800, 3700, 3300 and a 2.0 campus GPA. Applications of stochastic, deterministic, and simulation techniques to decision areas, such as market potential, product diversification, physical distribution alternatives, retail location, media selection, and market exposure. Quantitative and computerized methods are used heavily to enhance decision making in marketing, especially the selection, allocation, budgeting, and forecasting of marketing resources.

**3750 Sales Management (3)**

Prerequisites: Bus Ad 3700 and Bus Ad 3600; (Bus Ad 3600) may be taken concurrently). Also a minimum campus GPA of 2.0. The aim of this course is to provide an understanding of how selling is critical to the success of marketing. The course will promote critical thinking skills as well as practical selling skills needed in a competitive marketplace. Course topics include, among others, selling principles and techniques, understanding of the tasks and roles of the sales manager, the management of sales professionals within an organization, developing and applying effective persuasive communications, creating a vision, developing and implementing a sales-team strategy, structuring sales-force, designing and assigning territories, recruiting, training, motivation and evaluating salespeople, methods of compensation, and forecasting sales. The emphasis will be on ways the sales-force can be molded to build long-lasting relationships with customers through the systematic analysis and solution of customers' problems.

**3760 Business-to-Business Marketing (3)**

Prerequisites: Senior Standing, Math 1105, Bus Ad 3700 and a 2.0 campus GPA. A study of the nature of the business-to-business(organizational) marketplace concentrating on those aspects that differentiate it from consumer markets. The major focus of the course is marketing strategy, starting with analysis of the market wants and segments, concepts of pricing, the distribution arrangements, and buyer/seller relations. In this last area, consideration will be given to service, personal selling, sales promotion, and advertising, as found in the organizational marketplace. At all times emphasis is given to relating business-to-business marketing strategy to basic concepts in underlying business disciplines. Lectures and case discussions are used heavily in the course.

**3770 Introduction to Transportation (3)**

Prerequisites: A minimum campus GPA of 2.0; also Junior standing or instructor consent. This course provides an overview of the transportation sector, including history, providers, users, and government regulation. The importance and significance of transportation, the operational aspects of transportation modes of rail, water, motor, air and pipeline; the demand and supply of transportation, and the managerial aspects of these modes of transport will be covered in the course.

**3771 Traffic and Transportation Management (3)**

Prerequisites: A minimum campus GPA of 2.0 and Junior standing or instructor's consent. This course focuses on the purchase of transportation and warehouse services and/or the operation of transportation services as a firm activity. This course is also designed to provide the student with an exposure to the managerial aspects of transportation management as a function of the firm's logistical strategy. In addition, it includes an introduction to the management of firms within the various transportation modes of rail, motor, air, water, and pipelines. This course is designed to provide the student with a basic understanding of the issues and work performed by traffic managers and the management of modern transportation firms.

**3780 International Marketing (3)**

Prerequisite: Bus Ad 3700 and a 2.0 campus GPA. Marketing management problems, techniques and strategies needed to apply the marketing concept to the world marketplace. Understanding a country's cultural and environmental impact on the marketing plan is emphasized, as well as competing in markets of various cultures. Worldwide consumerism, Economic and social development, the spread of multinational corporations, business ethics, and current Economic and marketing issues are examined.

**3790 Internship in Marketing (1-3)**

Prerequisite: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least

6 credit hours of Marketing electives and have consent of supervising marketing instructor and Area Coordinator. A Business college of GPA of at least 2.5 is also required. Students are employed in the field of Marketing where they apply for the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. A Marketing faculty member will monitor the student's program with the student providing a formal written report at the end of the project. Bus Ad 3790 may be counted toward the minimum credit hours of marketing electives required for a marketing emphasis.

**3799 Independent Study in Marketing (1-3)**

Prerequisites: Minimum campus GPA of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in marketing under the supervision of a full-time marketing faculty member.

**3806 Managerial Applications Of Object-Oriented Programming I (3)**

Prerequisites: (Bus Ad 1800 or Cmp Sc 1220 or 1250 and a 2.0 campus GPA. The course provides a study of the UNIX operating system and the C++ programming language as they pertain to managerial applications. In addition, the course will introduce the use of object-oriented programming methodologies.

**3807 Legacy Systems (3)**

Prerequisite: A minimum campus GPA of 2.0 and Bus Ad 3806. Structured COBOL programming techniques for business applications are presented. Included are report generation, control breaks, output editing, debugging tables, sort concepts, job control language, utilities, partitioned data sets, and updating files.

**3810 Information Systems Analysis (3)**

Prerequisites: A minimum campus GPA of 2.0 and (Bus Ad 3806 or permission of instructor). Aspects and methods for managing the computer and information resources of organizations. Topics include: project management aligning IS plans with corporate plans, MIS organizational structures, demonstrating the values of systems, facility management, purchase decisions, software acquisition, software metrics, security issues, and Economic evaluation, as they relate to information resources. Special cases of systems, such as Enterprise Resource Planning (ERP) systems, Supply Chain systems, and BPO will be discussed.

**3815 Object Oriented Applications in Business (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 3806. Object Oriented programming techniques for business applications are presented. The topics are implemented in a C++ environment.

**3816 Managerial Applications of Object-Oriented Programming II (3)**

Prerequisites: Bus Ad 3806 and a minimum campus GPA of 2.0. This course expands object-oriented skills taught in Bus Ad 3806. The emphasis in this course is on object-oriented development tools and development in a client-server environment. The data management tools will include the use of SQL to access server-based databases.

**3841 Enterprise Information Systems (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 2800. Aspects and methods for managing the computer and information resources of organizations. Topics include aligning IS plans with corporate plans, MIS organizational structures, demonstrating the value of MIS to senior management, facility management, purchase decisions, software acquisition, software metrics, project management, security issues, and Economic evaluation, as they relate to information resources.

**3842 Management of Telecommunications (3)**

Prerequisite: Bus Ad 1800 and a 2.0 campus GPA. The technical and managerial aspects of telecommunications as they apply to the business environment are discussed. Issues include: communications components and services, local area network architecture, managerial implementations, organizational issues, and cost/benefit analyses.

**3843 Decision Support Systems (3)**

Prerequisites: Bus Ad 3300 and a minimum campus GPA of 2.0. Applications of decision support systems and expert systems in a business environment are studied. Relationships between decision support systems, expert systems, and database management systems are explored.

**3844 Developing Business Applications in .NET (3)**

Prerequisites: A minimum campus gpa of 2.0 and BA 3806. This course will enable students to design, implement, and debug object-oriented and data driven business applications in Visual Basic.NET. Students will learn application design choices, object-oriented design principles, event-driven programming, user interface programming using Windows Forms and user interface controls, data binding and database access using ADO.NET, exception handling, debugging and effective ways of working with Visual Studio.NET.

**3845 Database Management Systems (3)**

Prerequisites: a minimum campus GPA of 2.0 and (BA 3806 or permission of instructor). This course provides an introduction to the design and use of databases in meeting business information needs. Topics include

database planning, conceptual design, and data administration. The concepts are studied with projects involving the use of a current database management system.

**3846 e-Commerce (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 2800. This course provides an understanding of strategies, managerial issues, and technologies pertaining to electronic commerce in organizations. Topics covered include: history, business models, the virtual value chain, electronic markets, impact on organizational strategy and industry structure, analysis of successful strategies, and other emerging issues (legal, ethical, regulatory) related to managing electronic commerce, and the technical infrastructure enabling electronic commerce.

**3847 Web Design (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 2800. This course focuses on web page planning, design, layout and construction. Topics covered include: setting up and maintaining a web site; understanding site structure, presentation, navigation and content management. HTML/XML, CSS, Dreamweaver, Fireworks, Flash, Photoshop, data access, scripting languages, and various other technologies and tools will be discussed.

**3848 Security and Information Systems (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 2800. This course addresses the challenge of assuring security in information systems – networked, embedded, and stand alone. Topics include: security policies, models, tools, and techniques for enforcement. The course also examines flawed security policies and the consequences of penetration and disruption of information systems

**3890 Internship in Management Information System (1-3)**

Prerequisite: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of management information systems electives at the 3000-level or above and have consent of supervising marketing instructor and Area Coordinator. A Business college of GPA of at least 2.5 is also required. Students are employed in the field of management information systems where they apply for the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. A management information systems faculty member will monitor the student's program with the student providing a formal written report at the end of the project. Bus Ad 3890 may not be counted toward the minimum credit hours of marketing electives required for a management information systems emphasis.

**3899 Independent Study in Information Systems (1-3)**

Prerequisites: Minimum campus GPA of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in information systems under the supervision of a full-time information systems faculty member.

**3900 Business Law: Contracts, Sales, Secured Transactions, Bankruptcy (3)**

Prerequisites: Bus Ad 2400, Econ 1001, and a 2.0 campus GPA, or junior standing and a 2.0 campus GPA. Introduction to the laws of contracts, sales, secured transactions, bankruptcy, and other selected topics.

**3901 Business Law: Negotiable Instruments, Business Organizations, Property (3)**

Prerequisites: Bus Ad 2400, Econ 1001, and a 2.0 campus GPA, or junior standing and a 2.0 campus GPA. Introduction to the laws of negotiable instruments, the principal-agent relationship, partnerships, corporations, property, and other selected topics.

**3980 The Law of International Business Transactions (3)**

Prerequisites: A minimum campus GPA of 2.0; also Econ 1002 and Bus Ad 2900 or consent of instructor. A study of the role and function of International Law and national laws in the regulation of international business transactions. The impact of various legal regimes on import-export transactions, foreign investments, and operations of multinational enterprises will be included. The role of national government supranational governmental organizations, and non-governmental organizations in forming and administering the international legal environment will be studied.

**3990 Internship in Business Law (1-3)**

Prerequisite: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 3 credit hours of Business Law electives and have consent of supervising marketing instructor and Area Coordinator. A Business college of GPA of at least 2.5 is also required. Students are employed in the field of Business Law where they apply for the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. A Business Law faculty member will monitor the student's program with the student providing a formal written report at the end of the project. Bus Ad 3990 may not be counted toward the minimum credit hours of marketing electives required for a marketing emphasis.

**3999 Independent Study in Legal Studies (1-3)**

Prerequisites: Minimum campus GPA of 2.0 and approval by the supervising professor and the area

coordinator. Special individual study in legal studies under the supervision of a full-time legal studies faculty member.

**4219 Strategic Management (3)**

Prerequisites: Senior standing and Bus Ad 3500, 3700, 3600, a minimum campus GPA of 2.0; and concurrent enrollment in Bus Ad 4220. This is a capstone course drawing on the subject matter covered in prerequisite courses. Emphasis is on the formulation and implementation of corporate, business and functional strategies designed to achieve organizational objectives. Topics include the role of top management, globalization of business and ethical perspectives. Case studies and research reports may be used extensively. (It is preferred that this course be taken during the student's final semester.)

**4220 Business Assessment Testing (0)**

Prerequisite: Concurrent enrollment in Bus Ad 4219. A one-time lab during which a major field exam in business is administered. Course graded on a Satisfactory/Unsatisfactory basis. Satisfactory grade required for graduation.

**4288 Internship in International Business (3-6)**

Prerequisites: Econ 1001 and 1002, Bus Ad 2400 and 2410, an additional 12 hours in BA, concurrent enrollment in a UM overseas program; also a 2.0 minimum campus GPA. The internship will be a supervised field experience in a business/international organization at a foreign site. Students will work for 10 weeks on projects directed by host organization supervisors in consultation with an UM-St. Louis faculty member. Prior to the field experience students will receive training that includes familiarization with the language and practices of the country's business, the background of the host firm, and international information sources. The student will complete a written report of his/her project. Course may not be repeated for more than 6 hours credit.

**4312 Business Forecasting (3)**

Prerequisites: A minimum campus GPA of 2.0 and either Bus Ad 3220 or [Math 3000 and Statistics 1320]. Further study of statistical tools for forecasting in a decision-making context. Topics include explanatory models (multiple regression), classical time series decomposition, and extrapolative techniques (exponential smoothing and Box-Jenkins procedures). In addition, methods for considering problems of intervention effects, seasonality, and collinearity will be discussed. Students will perform extensive analyses of time series data using computer packages.

**4314 Multivariate Analysis (3)**

Prerequisites: A minimum campus GPA of 2.0 and either Bus Ad 3320 or [Math 3000 and Stat 1320]. A study of statistical techniques applicable to multivariable relationships.

**4321 Production and Operations Management (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 3320. Application of the tools and techniques of statistical decision theory and operations research to production and operating problems. Emphasis is on the use of Mathematical modeling and simulation techniques to analyze complex and ill-structured problems in large-scale systems.

**4322 Lean Production in Manufacturing and Service Operations (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 3320. Study of Lean Production philosophy and techniques in manufacturing and service operations. Topics include process analysis and continuous improvement techniques, quick set-ups, total productive maintenance, kanban scheduling, cellular production, team organization of workers, supplier relations, quality management, and the environmental aspects of production.

**4324 Service Operations Management (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 3320. An examination of methods for designing and operating service delivery systems, such as in the health care, financial, transportation, hospitality, and governmental service industries. Topics include process and facility design, facility layout and location, queuing, demand forecasting and management, service quality, staffing, and personnel scheduling.

**4326 Quality Assurance in Business (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 3320. A study of statistical quality control concepts and procedures applicable to management systems, administrative activities, service industries, and nonprofit organizations. Some successful quality assurance programs will be examined.

**4330 Business Logistics Systems (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 3320. Analysis of business logistics systems, their design and operation. Topics include network design, facility location, transportation, vehicle routing, storage and handling, capacity planning, inventory management, and customer service.

**4350 Management Science Methods (3)**

Prerequisites: A minimum campus GPA of 2.0 and either Bus Ad 3320 or [Math 3000 and Stat 1320]. Applications of the theories and techniques of operations research to problems of business, government, and industry, with emphasis on the construction and utilization of quantitative decision models.

**4354 Operations Research II (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 4350. Topics of special interest including Mathematical programming, stochastic decision-making, digital simulation, game theory, and other selected techniques. (Formerly Mathematical Programming).

**4381 International Logistics and Operations Management (3)**

Prerequisites: A minimum campus GPA of 2.0 and Bus Ad 3320. A study of business logistics and supply chain strategies involving shipments across national boundaries. Topics include the effects of international agreements and regional trading blocks on supply chain strategies; the design of global logistics networks; managerial processes and systems for international production and distribution; and risk management for international logistics.

**4401 Financial Accounting and Reporting III (3)**

Prerequisites: Math 1030 and Bus Ad 3402; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Accounting theory and practice related to topics such as income taxes, pensions, owner's equity, earnings per share, and the statement of cash flows. The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

**4402 Financial Accounting and Reporting IV (3)**

Prerequisites: Math 1030 and Bus Ad 3402; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Accounting theory and practice related to topics such as business combinations, consolidated financial statements, multinational operations, foreign exchange transactions, and governmental and nonprofit organizations. The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

**4405 Professional Accounting Research (3)**

Prerequisites: Bus Ad 4401; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Discussion of the research tools and methods available to resolve questions concerning accounting standards and practices. Critical analysis of topics of current interest and importance in accounting practice is the focal point of the course.

**4435 Auditing (3)**

Prerequisites: Math 1105, Bus Ad 3402 and Bus Ad 3421 or Bus Ad 3810; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. An introduction to auditing practice. Includes the social role of auditing and the services offered by auditors in internal, governmental, and public accounting practice. Emphasis is on the financial auditing process, including professional ethics, audit risk assessment, study and evaluation of internal control, gathering and evaluating audit evidence, and audit reporting decisions.

**4441 Advanced Federal Income Tax: Tax Research and Business Taxation (3)**

Prerequisite: Bus Ad 3441; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Uses internet-based tax research service to conduct research that resolves tax law questions. Also focuses on federal income taxation of corporations, S corporations, partnerships, LLCs and their owners.

**4614 Entrepreneurship/Small Business Management (3)**

Prerequisites: Bus Ad 2900, 3500, 3700, 3600, and a 2.0 campus GPA. This integrative general management course is designed to communicate the academic principles of business management applicable to solving of problems of small- and medium-size businesses and assist in their development. This course will provide a background in the forms of business, the development of business plans and systems integration, venture capital, accounting, procurement, promotion, financing, distribution and negotiations for initial organization, and operation and expansion of the firm.

**4689 International Strategic Management (3)**

Prerequisites: A minimum 2.0 campus GPA and Bus Ad 3682, 3780 and 3580 or consent of the instructor. A study of the international dimensions of strategic management. Provides an introduction to the key concepts and tools necessary for international competitive analysis. Topics include the international dimensions of strategy formulation and implementation, diversification, strategic alliances, and divestment.

**4700 Marketing Management (3)**

Prerequisites: Math 1105, Bus Ad 3700, three other marketing elective courses, senior standing, and a 2.0 campus GPA. An intensive analysis of major marketing decisions facing the firm, such as level, mix, allocation, and strategy of marketing efforts. Specific decision areas investigated include market determination, pricing,

physical distribution, product policy, promotion, channel management, and buyer behavior. Competitive, political, legal, and social factors that may affect such areas of decisions are discussed. Cases, models, and problems are used heavily.

**4850 Information Systems Design (3)**

Prerequisites: A minimum campus GPA of 2.0; Bus Ad 3810, 3816, and 3845. System design, implementation, and methods of systems installation and operation are presented. A system development project is required.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## College of Education

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### **College of Education Home Page**

#### **Accreditation**

The University of Missouri-St. Louis, College of Education, is accredited by the National Council for Accreditation of Teacher Education and the Missouri Department of Elementary and Secondary Education for the preparation of early childhood, elementary, special education, physical education, secondary school teachers and school service personnel.

#### **Course Designations in the College of Education**

The following abbreviations are used to indicate instructional areas in the course listings and descriptions in the College of Education.

Adult Education Courses (**Adu Ed**)  
Counselor Education Courses (**Cns Ed**)  
Early Childhood Education Courses (**Ech Ed**)  
Educational Administration Courses (**Ed Adm**)  
Educational Foundations Courses (**Ed Fnd**)  
Educational Psychology Courses (**Ed Psy**)  
Educational Research and Evaluation Methods Courses (**Ed Rem**)  
Educational Technology Courses (**Ed Tec**)  
Elementary Education Courses (**Ele Ed**)  
Middle Education Courses (**Mid Ed**)  
Higher Education Courses (**Hir Ed**)  
Physical Education Courses (**Phy Ed**)  
College-wide Education Courses (**Educ**)  
Secondary Education Courses (**Sec Ed**)  
Special Education Courses (**Spc Ed**)  
Teacher Education Courses (**Tch Ed**)

### **Teacher Education**

#### **Degrees and Areas of Concentration**

The College of Education offers certification programs leading to the B.S. in education with specialization in any of the following: early childhood education, elementary education, special education, physical education, and secondary education. Courses are also available for those seeking certification for middle school language arts, mathematics, science and social studies. K-12 certification is available for music, art, foreign language and health. In cooperation with other schools and colleges of the university, the College of Education provides a program for students pursuing other degrees and also planning for a teaching career in secondary education.

#### **General Education Requirements**

Students in the College of Education must meet university and departmental general education requirements specified for their degrees.

#### **Academic Residence**

Students must be in residence for 30 of the last 30 semester hours of credit. Courses graded on a satisfactory/unsatisfactory basis are not accepted within these last 30 semester credit hours. This residency requirement applies to students seeking a degree or teacher certification.

#### **Education Majors**

Professional education courses must be completed with a grade point average of 2.5 and no grade lower than a C (2.0). A C grade is not acceptable.

#### **Admission to the College of Education**

Any students who designate education degree programs as their intended degree paths will have Education as their assigned academic unit. Students admitted to the College of Education and also desiring teacher

certification must also be admitted to the Teacher Education Program.

### **Application and Admission to the Teacher Education Program**

All students (pre- and post-degree) who wish to become teachers must be admitted to the Teacher Education Program regardless of the teacher education program in which they are enrolled. The admission program requires student action at the following levels.

Applications to the Teacher Education Program are processed through the Teacher Certification and Advising Office (TC & A). Eligibility is based upon fulfillment of the following requirements:

- Submission of qualifying scores on C-BASE in areas of English, writing, mathematics, science and social studies, as mandated by the Missouri Excellence in Education Act of 1985. Consult Teacher Certification & Advising Office – College of Education, for test descriptions, cost, required scores, dates of administration, retest policies, etc. Acceptable C-BASE scores are required in addition to acceptable ACT or SAT scores. (C-BASE not applicable to students with a bachelor's degree. Graduates of the general studies program at UM-St. Louis, however, must take the C-BASE).
- Scores of either 20 on the ACT Composite (18, when taken prior to 11-1-89) or 800 on the SAT (verbal plus math)\*.
- Completion of 60 hours of college or university courses (at UM-St. Louis or another accredited school).
- A grade point average of 2.5 or higher.
- Completion of level one courses, or the equivalent, with a grade of C or better.
- Approved results of criminal record check and child abuse/neglect screening.

### **General Information**

#### **\* Policy for Students Scoring Below ACT and SAT Qualifying Requirements**

Students who do not achieve satisfactory scores of 20 on the ACT or 800 on the SAT may retake the test(s) until the requirement is met.

Students with a documented disabling condition, preventing valid test administration of the ACT or SAT, may be evaluated for basic educational competencies through appropriate testing instruments and/or procedures. Students should contact campus Disability Access Services.

Students who do not meet the initial ACT or SAT qualifying scores may seek assistance in upgrading basic competencies through contact with one or more of the following University of Missouri-St. Louis services: Center for Academic Development; Women's Center; Counseling Service; Veteran Affairs Office; Video Instructional Program; Horizons (Peer Counseling Center).

In addition, assistance may be available through correspondence courses, University of Missouri-Columbia. Copies of this policy are available in the Teacher Certification and Advising Office.

### **Professional Internship Semester**

Students in the early childhood, elementary, special education and secondary certification programs participate in a three credit hour Professional Internship, taken the semester prior to student teaching. The internship and student teaching application is the same and is according to the deadlines for Student Teaching. Internships involve education students one day per week in a school site setting throughout the semester. See the student teaching guidelines for application due dates.

#### **Application to the Student Teaching Program**

The application for student teaching is a two-part process that begins the semesters prior to student teaching.

#### **Deadlines for the Formal Application**

Fall Student Teaching First week of February of the previous year  
 Winter Student Teaching First week of September of the previous year

\*Check 'My Gateway' and the student teaching bulletin board in Marillac Hall for exact date.

Upon receipt, formal applications for both pre- and post degree students are checked to ensure they have met the following requirements:

- Full admission to the teacher education program for both pre- and post degree students.
- A cumulative grade point average of 2.5 or above by the semester before the one in which students plan to do their student teaching. The 2.5 cumulative grade point average must be maintained in order to graduate with a B.S. in education degree and/or be certified to teach in the state of Missouri.
- Grade point average of 2.5 in the teaching field (secondary education students only).
- A grade of C or better in all professional education courses so designated. Lists of these courses available in the TC & A office and from advisers. A grade of C- is not acceptable.

- Completion of TB screening, police, and child abuse checks.

The student teaching experience in the early childhood, music, physical education, and special education certification programs provides opportunities in a variety of settings. Students will be expected to do student teaching on a full-day basis for 14-weeks during an entire semester. The student teaching experience must be completed in residence. Secondary student teaching in science education, mathematics education, and foreign language education is offered during the winter semester only.

Policies regarding withdrawal or removal from student teaching are found in the appropriate student teaching handbook. These are found in the 'online student teaching application' section of the College webpage.

For further information regarding certification, contact the Teaching Certification and Advising Office (TC & A) at 155 Marillac Hall.

### **Application for Degree and/or Certificate**

#### **Bachelor of Science in Education (B.S.)**

Candidates for the B.S.Ed. degree must complete degree and certificate application forms in the TC & A Office when they apply for admission to internship/student teaching or during the semester before the one in which they expect to finish degree requirements. See information below on the on PRAXIS examination.

The College of Education requires a background check, current within one year, for every UMSL student in the teacher education program. Please note that students wishing to be certified will still be responsible for a more thorough, fingerprint background check as required by Missouri State Law before a certification will be issued. All background check information will be available to students upon their request.

#### **Bachelor of Educational Studies (B.E.S.)**

Candidates should consult the TC & A Office, 155 Marillac Hall for more information. This degree offers three areas of study: Early Childhood, Exercise Science and Professional Studies.

#### **Bachelor of Arts**

Students seeking the B.A. degree with teacher certification must complete a state certification form with the TC & A. See note below on the on PRAXIS examination.

#### **Certification**

In cooperation with the Missouri State Department of Elementary and Secondary Education, the College of Education is responsible for recommending all students for state teacher certification.

All individuals must pass the appropriate Praxis/National Teacher's Examination to meet graduation and/or certification requirements. This exam should be taken during the semester immediately prior to that of student teaching.

Students may earn certification in the fields of elementary education, early childhood education, middle school, music education, physical education special education (cross categorical), art education, as well as the secondary education areas of biology, chemistry, English, foreign languages (French, German, Spanish), mathematics, physics, social studies, and speech/theater. Graduate programs leading to certification are offered in counseling, reading, school administration (elementary and secondary principal, school superintendent), and special education.

#### **Graduate Level Certification Program**

Applicants who hold a Bachelor's degree in a teaching field can work toward secondary education certification by taking but not limited to 18 credit hours of coursework and student teaching within a minimum of one calendar year.

Coursework includes:

**Tch Ed 5310:** Designing Instruction, 3 credits (includes 14 clock hours of field experience)

**Tch Ed 5311:** Educational Foundations, 4 credits (includes 10 clock hours of field experience)

**Ed Psy 6109:** Learning and Development in Secondary School Settings, 4 credits (includes 8 clock hours of field experience)

**Tch Ed 5312:** Differentiated Instruction, 4 credit hours (includes 12 clock hours of field experience)

**Sec Ed 4989:** Secondary Education Professional Internship, 3 credits (includes 84 clock hours of field experience)

**Sec Ed 4990:** Student Teaching, 12 credits (full days in a school for one semester)

Students seeking certification via this program must meet with advisors in the College of Education Graduate Education Office, Teacher Certification and Advising Office and secondary education faculty members in the content (teaching) area to plan specific programs and review requirements. Any hours in addition to the above necessary to meet state teacher certification requirements will be determined.

## Graduate Studies in Education

### Degrees and Areas of Emphasis

The College of Education offers Master of Education (M.Ed.), Educational specialist (Ed.S.), and doctoral degrees at the graduate level. The M.Ed. degrees and the emphasis areas are:

- Adult and Higher Education
- \* Adult Education emphasis
- \* Higher Education emphasis
- Counseling
- \* Elementary School Counseling emphasis
- \* Secondary School Counseling emphasis
- \* Community Counseling emphasis
- Educational Administration
- \* Community Education emphasis
- \* Elementary Administration emphasis
- \* Secondary Administration emphasis
- Elementary Education
- \* Early Childhood Education emphasis
- \* General emphasis
- \* Reading emphasis
- Secondary Education
- \* Curriculum and Instruction emphasis
- \* General emphasis
- \* Reading emphasis
- Special Education
- \* General emphasis
- \* Early Childhood/Special Education emphasis

Courses are available for areas of specialization within the M.Ed. programs, including educational technology, physical education, educational psychology, and the various secondary school subject areas.

Ed.S. degree programs are available in school psychology and educational administration.

Programs leading to the Ed.D. degree are offered in four broad interdisciplinary emphasis areas: Educational Administration; Adult & Higher Education; Teaching-Learning Processes; and Counselor Education. Programs leading to the Ph.D. degree are offered in the areas of Counseling, Educational Psychology, Teaching-Learning Processes, and Educational Leadership and Policy Studies.

## Master of Education Degree

### Admission and General Requirements

The College of Education follows Graduate School policies relating to admissions, academic standards, residency, transfer credit, time limitations, and thesis options (see Graduate Study in this *Bulletin*). In addition to meeting the general requirements of the Graduate School, applicants for school or community counseling must complete a separate application (see graduate studies in the Counseling division in this *Bulletin*). The minimum number of hours required for the M.Ed. degree is 32 or 33 except that the elementary, secondary, and community counseling emphases require 48 hours. The school has adopted a flexible policy on exit requirements, which are determined divisionally.

### Advisement and Program Planning

Upon acceptance, each student can contact the Office of Graduate Education for an appointment with the graduate advisor for a first semester course of study (314) 516-5483 or [NAshford@umsl.edu](mailto:NAshford@umsl.edu). After acceptance, each student completes an adviser form, sent by the College of Education's Office of Graduate Education, 123 SCCB. A faculty adviser is then appointed who counsels the student in registration and program planning. A program for master's degree form must be submitted for approval during the first half of the student's program. This form includes all course work in the program and the exit requirement. Once approved, the degree program may be changed only by petition.

Students working toward teacher and/or school service personnel certification as graduate students should complete state certification forms in the Teacher Certification and Advising Office, 155 Marillac Hall, one year before those requirements will be completed.

### Educational Specialist Degree

The Ed.S. degree is intended to be a terminal degree for school personnel preparing for a specific role, either that of a school psychologist or that of a school building or district administrator. The programs require 60 hours of course work, post-baccalaureate. Both programs are designed to meet the respective Missouri

certification requirements. The Ed.S. in School Psychology degree program requires three years of intensive, full-time training but students may be able to complete up to half of the curriculum as a part-time student. The Ed.S. in Educational Administration can be pursued on a part time or a full time basis.

#### **Admission and General Requirements**

The College of Education follows Graduate School policies relating to admissions, academic standards, residency, transfer credit, time limitations, and exit requirements. Specific materials required for application vary by program, but generally applicants should submit an application to The Graduate School, transcripts of previous college work, GRE scores, and letters of recommendation.

#### **Advisement and Program Planning**

For advising and program planning, school psychology students should contact the Division of Educational Psychology, Research and Evaluation, 402 Marillac Hall, 314-516-5783. Educational administration students should contact the Division of Educational Leadership and Policy Studies, 269 Marillac Hall, 314-516-5944.

#### **Doctor of Education Degree**

The Ed.D. degree is designed primarily for the field practitioner and prepares professional leaders who are competent in identifying and solving complex problems in education. Four emphasis areas embrace general categories of professional activities: Educational Administration; Adult & Higher Education; Teaching-Learning Processes; and Counselor Education.

Students seeking the Ed.D. degree are expected to meet the doctoral degree requirements and procedures adopted by the Graduate School. (See Doctoral Degree Requirements for details.)

#### **Admission and General Requirements**

In addition to meeting the application and admissions requirements of the Graduate School, students must submit three letters of recommendation (two letters must be from individuals with an earned doctorate, preferably prior instructors), along with a professional resume. Because enrollment is competitive, admission standards are comparatively high. Successful candidates must exhibit significantly above-average academic records and GRE scores. In exceptional cases, other criteria may outweigh these customary indicators of probable academic success.

At least two years of teaching or other school service experiences are required for admission. Exceptions may be made by substituting a supervised internship during the first year of the program.

#### **Admission Application**

In order to ensure time for review and decision, complete applications and accompanying materials must reach the office of admissions in a timely manner. In addition, applicants are urged to request transcripts and letters or recommendation two weeks before submitting their papers. Consideration of applications cannot be undertaken until all materials are available. Degree Requirements

1. Foundations, 12 hours from: philosophical, historical, psychological, sociological, anthropological, and comparative foundations of education, as well as curriculum, instruction and supervision.
2. Research Methods, 12 hours:

Students in the Educational Administration, Adult and Higher Education, and Teaching-Learning Processes options should complete the following or equivalent in order:

**Ed Rem 6735:** Statistical Analysis for Educational Research (pre-requisite)

**Ed Rem 6750:** Advanced Research Design in Education

#### **Plus any two methods courses from the following:**

**Ed Rem 7771:** Quantitative Research Methods I

**Ed Rem 7772:** Quantitative Research methods II

**Ed Rem 7781:** Qualitative Methods in Educational Research I

**Ed Rem 7782:** Qualitative Methods in Educational Research II

This sequence totals 12 hours of methods courses. Any remaining required hours could be completed with other Ed Rem courses numbered 6000 or higher or research courses in another curriculum.

Students in the Counselor Education option should complete the following sequence:

**Ed Rem 6710:** Educational Research Methods and Design

**Ed Rem 7771:** Quantitative Research Methods I

**Ed Rem 7781:** Qualitative Research Methods I

#### **Plus any one method course from the following:**

**Ed Rem 7772:** Quantitative Research Methods II

**Ed Rem 7782:** Qualitative Methods in Educational Research II

3. Common doctoral seminars, 6 hours

**Educ 7050,** The Research Process I: Framing Research Questions with the Education Literature

**Educ 7950,** The Research Process II: Developing and Refining Education Research Proposals

4. Major Specialization, 21-39 hours:

**Educational Administration Option**

Educational Administration (ED ADM) or other courses selected in consultation with the advisory committee, including internship (3-9 hours)

**Adult and Higher Education Option**

Adult Education (ADU ED) or Higher Education (HIR ED) or other courses selected in consultation with the advisory committee, including internship (3-9 hours)

**Teaching-Learning Processes Option**

Teacher Education (TCH ED) courses or courses in education in a teaching field, including courses on curriculum construction and the design and improvement of instruction, all selected in consultation with the advisory committee, including internship (3-9 hours)

**Counselor Education Option**

Counseling Education (CNS ED) or other courses selected in consultation with the advisory committee, including internship (3-9 hours)

5. Minor Specialization, 12-18 hours

A secondary area of expertise identified in consultation with the advisory committee

6. Dissertation, 12 hours

Total: minimum 90 hours, postbaccalaureate

**Doctor of Philosophy Degree**

The Ph.D. degree in education, offered in cooperation with the School of Education at the University of Missouri- Kansas City and the College of Education at the University of Missouri-Columbia, is designed for educators who desire directed research experience promoting scholarly inquiry in education. Four emphases are available:

- Teaching-learning processes
- Educational leadership and policy studies
- Educational psychology
- Counseling

**Admission and General Requirements**

In addition to meeting the application and admissions requirements of the Graduate School, students must submit:

- Three letters of recommendation (at least two from individuals with earned doctorates, preferably prior instructors).
- An original essay.
- A professional resume.
- Evidence of above-average academic records.
- GRE scores

A favorable vote of an admission interview committee, composed of faculty in the emphasis area, is required. Admission is competitive.

**Admission Application**

To ensure time for review and decision, complete applications and accompanying materials must reach the office of admission in a timely manner. In addition, applicants are urged to request transcripts and letters of recommendation at least two weeks before submitting their papers. Consideration of applications cannot be undertaken until all materials are available. Applicants to the Counseling emphasis are asked to apply by January 15th.

**Degree Requirements**

1. Foundations, 9-12 hours:

Philosophical, historical, psychological, sociological, anthropological, and comparative foundations of education, as well as curriculum, instruction, and supervision.

## **2. Research Methods 15-18 hours:**

Students in the Teaching-Learning Processes, Educational Leadership and Policy Studies, and Educational Psychology emphasis areas should complete the following or equivalent in order:

**Ed Rem 6735:** Statistical Analysis for Educational Research (Pre-requisite)

**Ed Rem 6750:** Advanced Research Design in Education

**Plus any three methods courses from the following:**

**Ed Rem 7771:** Quantitative Research Methods I

**Ed Rem 7772:** Quantitative Research Methods II

**Ed Rem 7781:** Qualitative Methods in Educational Research I

**Ed Rem 7782:** Qualitative Methods in Educational Research II

This sequence totals 15 hours of methods courses. Remaining hours can be completed with other Ed Rem courses numbered 6000 or higher or research courses in another curriculum.

For Ph.D. students in the Counseling emphasis area, the recommended sequence is:

**Ed Rem 6710:** Educational Research Methods and Design

**Ed Rem 7771:** Quantitative Research Methods I

**Ed Rem 7772:** Quantitative Research Methods II

**Ed Rem 7781:** Qualitative Methods in Educational Research I

**Ed Rem 7782:** Qualitative methods Educational Research II

## **3. Foreign Language Proficiency or Other Research Tools, equivalent to 6 hours**

**4. Emphasis Area (Primary Discipline) courses, 21-27 hours,** with at least 16 in residence, in one of the following areas:

### **A. Teaching-Learning Processes**

Minimum 15 hours in cognate area

Minimum 3 hours in curriculum or instruction

Minimum 3 hours in educational psychology

### **B. Educational Leadership and Policy Studies**

Minimum 21 hours in educational leadership, either in K-12, higher education, work, adult, or community education settings, selected in consultation with the faculty advisor and advisory committee.

### **C. Educational Psychology**

Minimum of 21 hour in educational psychology. Program may include courses in research and evaluation methods, school psychology, developmental psychology, cognition and learning, character education, and socio-cultural theory. Courses in the primary discipline will be selected in consultation with the faculty adviser and advisory committee.

### **D. Counseling**

**Cns Ed 6030,** Foundations for Multicultural Counseling

**Cns Ed 6040,** Group Procedures in Counseling

**Cns Ed 6050,** Individual Inventory

**Cns Ed 6370,** Community Counseling Practicum (or **Cns Ed 6270,** School Counseling Practicum)

**Cns Ed 6380,** Community Counseling Field Experience (6 hours) (or **Cns Ed 6280,** School Counseling Field Experience I and **Cns Ed 6285** School Counseling Field Experience II)

**Cns Ed 6400,** Career Information and Development

**Cns Ed 6410,** Advanced Career Development

**Cns Ed 7000,** Advanced Theories of Counseling and Family Therapy

**Cns Ed 7010,** Advanced Multicultural Counseling

**Cns Ed 7020,** Seminar in Counseling Research

**Cns Ed 7030,** Counselor Education and Supervision

**Cns Ed 7770,** Doctoral Practicum (3 hours)

Additionally, all students should complete **Cns Ed 7780,** Doctoral Internship (6 hrs) as a research internship; and a secondary discipline in Ed Psy consisting of at least **Ed Psy 6310,** Psychology of Learning Processes, **Ed Psy 6113,** Personality Development and Adjustment, and **Ed Rem 6718,** Psycho-Educational Assessment II

**5. Related (Secondary Discipline) Courses, 12-15 hours, in education or another department.**

**6. Required Exit course, 3 hours**

**Education 7950, The Research Process II: Developing and Refining Education Research Proposals****7. Research Internship, 6-9 hours****8. Dissertation, 12 hours****Total: Minimum 90 hours, postbaccalaureate****Support Services**

The College of Education maintains a number of offices and centers to directly assist students, faculty, and people in the metropolitan area and to support its instructional, research, and service activities.

**Teacher Certification & Advising Office- - 155 Marillac**

This office provides advising services for teacher education undergraduate and certification students. The office co-ordinates the teacher education clinical experiences, directs the student teacher program and submits documents for state teacher certification.

**Office of Graduate Education - 123 SCCB**

Information about admission to, and requirements of, graduate programs in education may be obtained in this office. The office also assists students with advisement, registration, graduation and related topics, and maintains student records.

**School and Family Counseling Center, Suite 9, Regional Center for Education and Work**

The School and Family Counseling Center is a training facility for graduate students supervised by faculty in the Division of Counseling and Family Therapy. Counseling assistance with individual, couples, and family problems as well as adults, adolescents, or children's developmental concerns are available to individuals in the community. Phone (314)-516-5782 for more information.

**Reading Clinic - B9 ED LIB**

The reading clinic provides a laboratory setting for graduate level elementary and secondary teachers who are seeking certification as reading specialists. The clinic has been providing services to the surrounding community in diagnosing and treating severe reading problems in children and adults since 1966. The clinic also serves as a demonstration and materials center for preservice and inservice teacher education, as well as a clinical research facility for the faculty.

**University Child Development Center - 130 SCB**

The center provides university students with observation, participation, research, and similar educational and clinical opportunities; it also offers quality child care programs for children of student, faculty, staff, and community families.

**Technology and Learning Center - 100 Marillac**

The center provides education students and faculty a model environment for managing new methods of teaching through the newest technologies; a place to research and develop technology-enhanced teaching methods to engage K-12 students; and programs that connect school classrooms to the workplace.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Division of Counseling and Family Therapy

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#### Faculty

**Mark Pope**, Professor, Chair  
Ed.D., University of San Francisco  
**R. Rocco Cottone**, Professor  
Ph.D., Saint Louis University  
**Patricia A. Jakubowski**, Professor Emerita  
Ed.D., University of Illinois  
**Therese S. Cristiani**, Associate Professor  
Ed.D., Indiana University  
**Susan Kashubeck-West**, Associate Professor,  
Ph.D., Ohio State University  
**W. Glenn White**, Associate Professor Emeritus  
Ph.D., University of Missouri-Columbia  
**Angela D. Coker**, Assistant Professor  
Ph.D., Union Institute and University  
**Donghyuck Ryan Lee**, Assistant Professor  
Ph.D., Florida State University  
**Matthew E. Lemberger**, Assistant Professor  
Ph.D., University of South Carolina  
**Stacy L. Henning**, Clinical Assistant Professor  
Ph.D., University of Missouri - Saint Louis

#### General Information

The Division of Counseling and Family Therapy is housed on the fourth floor of Marillac Hall. Information about offerings and related matters may be obtained in the Division office, 469 Marillac Hall. The Division of Counseling and Family Therapy offers course work leading to three degrees: the Ph.D. in Education with an Emphasis in Counseling; the Ed.D. in Counselor Education and Supervision; an M.Ed. in Counseling with an emphasis in community counseling; elementary school counseling; and secondary school counseling. Information on the doctoral degrees is presented in this Bulletin in the general College of Education listing.

The following Division of Counseling and Family Therapy areas have been accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) at the Master's level:

- Community Counseling
- Community Counseling with a Specialization in Career Counseling
- School Counseling

CACREP, a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation, grants accredited status to graduate-level programs in the professional counseling field.

Students wishing to receive Missouri certification in elementary school counseling or secondary school counseling must complete all required courses for the M.Ed. in School Counseling in addition to holding teaching certificates valid in Missouri or taking the equivalent course work. (Consult your advisor if you have questions on these matters.) The M.Ed. in Community Counseling is appropriate for students planning to practice counseling in non school settings, and graduates may pursue the Missouri state license as a professional counselor (in order to practice independently).

The M.Ed. degree programs have an exit requirement of a comprehensive examination. Students may sit for the exam after completing 36 units of the degree program. There is a service charge for taking the exam. The exam will be given at least twice a year. All degree students should consult with their advisers about this

requirement.

## Graduate Studies

### Admission

In addition to meeting the general admission requirements of the Graduate School, applicants to the M.Ed. must complete the divisional application in addition to the application to Graduate School, have three completed references on file, must have an undergraduate GPA of 3.0, and must take Cns Ed 6000, Personal and Professional Development in Counseling, in their first semester. Admissions will be conducted twice a year. The deadlines for application are June 1 for the fall semester and October 1 for the spring semester.

Since it is the objective of the counseling faculty to identify students with low potential for competent practice as early as possible and to initiate the necessary procedures for dealing with such students, faculty members of the counseling program reserves the right to review students at any stage of their coursework. Any grade less than a B in any core counseling course Cns Ed 6000, Personal and Professional Development in Counseling; Cns Ed 6010, Theories of Counseling; Cns Ed 6370, Community Counseling Practicum or Cns Ed 6270 School Counseling Practicum; Cns Ed 6380 Community Counseling Field Experience or Cns Ed 6280 School Counseling Field Experience I or Cns Ed 6285, School Counseling Field Experience II will automatically trigger a review process. The Counseling Review Board process, however initiated, may result in the termination of the student's degree program or other required or recommended remedies to address deficiencies judged by the Counseling Review Board as related to the skills that are essential to the development of competent and ethical practices as a professional counselor.

Students admitted to the M.Ed. degree programs in counseling as "restricted graduate students" (see the "graduate study" rules in this Bulletin) must attain a 3.0 GPA for the first 12 hours of graduate course work at UM-St. Louis with no grade less than a B. Restricted students must include the following courses in the first 12 hours of coursework: Cns Ed 6000, Personal and Professional Development in Counseling; Cns Ed 6010, Theories of Counseling; Cns Ed 6370 Community Counseling Practicum or Cns Ed 6270 School Counseling Practicum; a student earning any grade less than a B in any of these courses, but still maintaining a 3.0 GPA, will be allowed to repeat the course one time and must earn a grade of B or better to be admitted.

### Master of Education: Emphasis in Elementary School Counseling

The courses listed below meet the coursework requirements for the M.Ed. degree, state certification, and licensing as a professional counselor:

#### Counselor Education (Cns Ed)

- 6000, Personal and Professional Development in Counseling
- 6010, Theories of Counseling
- 6020, Ethical and Professional Issues in Individual and Relationship Counseling
- 6030, Foundations for Multicultural Counseling
- 6040, Group Procedures in Counseling
- 6050, Individual Inventory
- 6200, Foundations of School Guidance
- 6270, School Counseling Practicum
- 6280, School Counseling Field Experience I
- 6285, School Counseling Field Experience II
- 6400, Career Information and Development

#### Psychological Foundations and Human Development (Ed Psy)

- 6210, Lifespan: Individual & Family Development
- 6532, Psycho-Educational Differences in Childhood

#### Educational Research and Evaluation Methods (Ed Rem)

- 6709, Educational and Psychological Measurement
- 6710, Educational Research Methods and Design

#### One elective course

Total 48 hours.

Individuals seeking certification as a professional school counselor in the State of Missouri who are non-teacher certificated must take the following courses in addition to their counseling degree: Ed Psy 6111, Spc Ed 6412, Spc Ed 6320, and Ele Ed 6410 or Sec Ed 6415. Students seeking K-12 certification must take both Ele Ed 6410 and Sec Ed 6415.

### Master of Education: Emphasis in Secondary School Counseling

The courses listed below meet the course work requirements for the M.Ed. degree, state certification, and licensing as a professional counselor:

**Counselor Education (Cns Ed)**

- 6000, Personal and Professional Development in Counseling
- 6010, Theories of Counseling
- 6020, Ethical and Professional Issues in Individual and Relationship Counseling
- 6030, Foundations for Multicultural Counseling
- 6040, Group Procedures in Counseling
- 6050, Individual Inventor
- 6200, Foundations of School Guidance
- 6270, School Counseling Practicum
- 6280, School Counseling Field Experience I
- 6285, School Counseling Field Experience II
- 6400, Career Information and Development

**Psychological Foundations and Human Development (Ed Psy)**

- 6210, Lifespan: Individual & Family Development
- 6532, Psychoeducational Differences in Childhood

**Educational Research and Evaluation Methods (Ed Rem)**

- 6709, Educational and Psychological Measurement
- 6710, Educational Research Methods and Design

**One elective course**

Total 48 hours.

Individuals seeking certification as a professional school counselor in the State of Missouri who are non-teacher certificated must take the following courses in addition to their counseling degree: Ed Psy 6111, Spc Ed 6412, Spc Ed 6320, and Ele Ed 6410 or Sec Ed 6415. Students seeking K-12 certification must take both Ele Ed 6410 and Sec Ed 6415.

**Master of Education: Emphasis in Community Counseling**

The community counseling emphasis allows flexibility for developing programs appropriate to particular nonschool settings. Students must have their adviser's approval before taking other than required courses.

**Core Curriculum (Cns Ed)**

The courses listed below meet the course work requirements for the M. Ed. Degree and the license to practice as a professional counselor:

The courses listed below meet the course work requirements for the M. Ed. degree and the license to practice as a professional counselor:

- 6000, Personal and Professional Development in Counseling
- 6010, Theories of Counseling
- 6020, Ethical and Professional Issues in Individual and Relationship Counseling
- 6030, Foundations for Multicultural Counseling
- 6040, Group Procedures in Counseling
- 6050, Individual Inventory
- 6300, Foundation of Community Counseling
- 6370, Community Counseling Practicum
- 6380, Community Counseling Field Experience (6)
- 6400, Career Information and Development

**Psychological Foundations and Human Development (Ed Psy)**

The following course is required:

- 6113, Psychopathology and Diagnosis

**Educational Research and Evaluation Methods (Ed Rem)**

The following course is required:

- 6710, Educational Research Methods and Design

**Area of Specialization (9 hours)**

Course work in the area of specialization is to be selected in consultation with the adviser and may include career counseling, mental health counseling, rehabilitation counseling, child and adolescent counseling, couples and family counseling, and others.

**Ph.D. in Counseling Psychology**

(Pending approval by the Coordinating Board of Higher Education)

The doctoral program in counseling psychology is designed to reflect a scientist-practitioner-advocate model.

Students will be trained to be effective scientists, practitioners, and advocates for social justice. The program emphasizes the integration of theory, research, practice, and advocacy. A special emphasis is a focus on minority mental health and a goal to prepare counseling psychologists who understand, advocate for, and appreciate diversity in people, communities, and cultures.

Admission requirements for the Ph.D. in Counseling Psychology program include a Master's degree in counseling psychology, counseling, or a closely related field. The program requires 72 hours of coursework after admission to the program and is designed to be completed by full-time students in four years (three years of coursework and dissertation work followed by a one year, full-time internship in an applied setting). Students may elect to complete their coursework on a part-time basis, so long as university "residency requirements" are met. Part-time students will still complete a full-time internship in an applied setting after they have finished their coursework and dissertation work (typically they would do the internship during their 7th year in the program, assuming they attend on a half-time basis).

### **Required Courses**

#### **Counselor Education (Cns Ed)**

Cns Ed 7000, Advanced Theories and Foundations of Counseling Psychology (3 sem. cr. hrs)  
 Cns Ed 7010, Advanced Multicultural Counseling (3 sem. cr. hrs)  
 Cns Ed 7020, Seminar in Counseling Research (3 sem. cr. hrs)  
 Cns Ed 7030, Counselor Education and Supervision (3 sem. cr. hrs)  
 Cns Ed 7050, Advanced Assessment in Counseling Psychology (3 sem. cr. hrs)  
 Cns Ed 7070, Psychopathology and Diagnosis in Counseling Psychology (3 sem. cr. hrs)  
 Cns Ed 7200, History and Systems of Counseling and Psychology (3 sem. cr. hrs)  
 Cns Ed 6410, Advanced Career Development (3 sem. cr. hrs)  
 Cns Ed 7600, Advocacy, Consulting, and Community Intervention in Counseling Psychology (3 sem. cr. hrs)  
 Cns Ed 7770, Doctoral Practicum (9 sem. cr. hrs)  
 Cns Ed 7780, Doctoral Internship (3 sem. cr. hrs)

#### **Educational Research and Evaluation Methods**

Ed Rem 6718, Psycho-Educational Assessment II (3 sem. cr. hrs)  
 Ed Rem 7771, Quantitative Research Methods I (3 sem. cr. hrs)  
 Ed Rem 7772, Quantitative Research Methods II (3 sem. cr. hrs)  
 Ed rem 7781, Qualitative Methods in Educational Research (3 sem. cr. hrs)

#### **Educational Psychology**

Ed Psy 6310, Psychology of Learning Processes (3 sem. cr. hrs) or Ed Psy 6534 or Ed Psy 6210 or Ed Psy 6111 or Ed Psy 7644 or Psy 5468 or Psy 5461  
 Ed Psy 6536, Biological Factors Influencing Human Behavior (3 sem. cr. hrs)  
 Ed Psy 7642, Sociocultural Perspectives in Education (3 sem. cr. hrs)

#### **Education**

Educ 7999, Dissertation Research (12 sem. cr. hrs)

### **Career Outlook**

#### **Elementary and Secondary School Counselors**

The demand for school counselors throughout the state is quite high. There is a shortage of school counseling personnel at all levels. Additionally, many teachers who do not intend to leave the classroom pursue this program to be better able to meet the needs of their students. Some graduates of the program have left the field of education and have obtained positions such as those cited under Community Counseling.

**Note:** It should be noted that in Missouri, persons who engage in "professional counseling" in many of these settings are required by law to be licensed as professional counselors.

#### **Community Counselors**

Graduates have been employed in a wide variety of settings: as counselors in community colleges, universities, employment agencies, vocational rehabilitation agencies, probation and parole work, juvenile detention, alcoholism and drug abuse clinics, career planning and placement centers, community mental health agencies, family and children services, and various federally funded public service projects. Additionally, graduates are employed in career development, and business and industry positions, especially in training and personnel areas. Others have moved into roles calling for research and evaluation skills.

### **Course Descriptions**

Prerequisites may be waived by consent of the department. For information about certification and licensure, an adviser should be consulted. Course descriptions in this section are **Counseling (Cns Ed)** courses.

**1400 Making a Career Choice (1)**

Introduces students to career development theories (Holland, Super, Bolles, etc.) and the career decision-making process. Students receive an overview of career development theory and learn how these theories pertain to the formulation of career plans. Self-assessment and decision-making techniques learned in this class can be revisited throughout the life span. The seminar format allows for small group discussion of career-related issues and personal application of career development principles.

**3000 Introduction to the Counseling Profession (3)**

Prerequisite: Junior or senior level standing. This survey course will provide undergraduates and noncounselors with a broad overview of the counseling profession. Topics include a history of the profession, foundations of counseling, ethical, and legal considerations and the role of the counselor in various settings.

**3210 Counseling Gifted Students (3)**

Prerequisites: Spc Ed 3313, Ed Psy 3312, or equivalent. This course emphasizes the social and emotional development of gifted and talented individuals. Subject areas will include current research, factors affecting the development of the gifted, and resources and strategies utilized in counseling these students and their parents.

**3220 Counseling Individuals with Special Needs (3)**

Prerequisite: Spc Ed 3313, or equivalent. A course emphasizing counseling skills for individuals who plan to work with the handicapped. Emphasis is placed on using counseling strategies with school-age handicapped children.

**3710 Counseling the Chemically Dependent (3)**

This course is an introduction to the problems resulting from the abuse of alcohol and other chemicals, with an emphasis on the impact of chemical dependence on the individual, the family, the employer, and the community. The special problems resulting from chemical dependence as it affects various populations, e.g., women, individuals with disabilities, and the elderly, will be analyzed and linked to appropriate counseling strategies.

**3720 Youth and Chemical Dependence (3)**

Prerequisite: Junior standing. This course provides information about adolescent and preadolescent chemical dependency and its relationship to numerous other developmental and societal factors that place the adolescent "at risk" for the development of substance abuse problems. Skills in the identification, intervention, and referral of chemically-dependent adolescents are emphasized, along with preventive measures and family and school issues.

**6000 Personal and Professional Development in Counseling (3)**

Prerequisite: Provisional acceptance to the Counseling Program or consent of instructor. This course provides an in-depth view of the professional counseling field. Attention is focused on the development of the helping relationship, including a review of research on factors which influence helping processes and rapport building, a development of skills used in the counseling process, and increased awareness of how students' values, beliefs, and behaviors are related to counselor effectiveness.

**6010 Theories of Counseling (3)**

Prerequisite: Cns Ed 6000. This course will explore the philosophical foundations of counseling theory. The major constructs of contemporary counseling approaches will be discussed, and the practical applications of these theories will be analyzed.

**6020 Ethical and Professional Issues in Individual and Relationship Counseling (3)**

Prerequisite: Cns Ed 6000. Ethical, legal, and professional issues related to counseling are addressed. Ethical dilemmas in the provision of counseling services to individuals, couples, families, and groups are defined. Specific ethical codes of professional organizations are examined.

**6030 Foundations for Multicultural Counseling (3)**

Prerequisite: Cns Ed 6000 with a grade of B or better and Cns Ed 6010. This course will focus on: (1) reviewing knowledge and research in the area of multicultural counseling, (2) developing and/or enhancing skills useful in counseling with individuals from minority populations, and (3) developing levels of personal awareness about stereotypes, and learning how feelings and attitudes about these may impact counseling with individuals from minority populations.

**6040 Group Procedures in Counseling (3)**

Prerequisites: Cns Ed 6000 with a grade of B or better and Cns Ed 6010 and Cns Ed 6270 or 6370. This course examines the process dynamics of groups including group development, leadership, norms and therapeutic factors. Group counseling theories and approaches used for other group work including skills, personal growth, support, vocational, and developmental guidance groups are included. Knowledge and skills of how to facilitate therapeutic groups are included. Students will be required to be participant-observers or facilitators of a group

outside of class time.

**6050 Individual Inventory (3)**

Prerequisites: Ed Rem 6709. Uses of educational and psychological appraisal techniques in counseling. Develops counselors' abilities in assisting clients toward self-awareness through the use of test and nontest data. Ethical practices in the use of tests and the maintenance of personnel records are stressed.

**6060 Enhancing Counseling Skills (3)**

Prerequisites: Cns Ed 6000. Focuses on mastery of basic counseling skills for students who possess an understanding of the counseling process.

**6200 Foundations of School Guidance (3)**

Prerequisites: Cns Ed 6000 with a grade of B or better. The purpose of this course is to give students a foundation for understanding the history, philosophy, and development of school guidance programs. The role functions of the school counselor within a developmental, comprehensive program are examined, along with communication skills necessary for consultation with students, parents, school support staff, and resource people in the community nonacademic needs.

**6220 Current Issues In Counseling Special Needs Populations (3)**

Prerequisites: Graduate Standing. Designed to analyze relevant literature and to provide communication skills training for those professionals in school settings who work with individuals with special needs. The characteristics and social and emotional needs of this special population will be discussed as well as the impact of special needs on the family system.

**6270 School Counseling Practicum (3)**

Prerequisite: Cns Ed 6000 and 6010 (both courses with a grade of B or better) or consent of the instructor. Supervised practice in counseling with children and adolescents and the opportunity for students to learn to facilitate personal change and problem solutions using a defined systematic framework, theoretical orientation, or research base.

**6280 School Counseling Field Experience I (3)**

Prerequisite: Cns Ed 6270 with a grade of B or better and consent of instructor. A 300-hour closely supervised field experience under the direction of a graduate faculty member. Designed to move the student to an appropriate level of competence and evidence of growth in the professional school counselor role. Students will receive 1.5 hours of group and 1 hour of individual supervision weekly by field experience site supervisor.

**6285 School Counseling Field Experience II (3)**

Prerequisites: Cns Ed 6280 with a grade of B or better and consent of instructor. A 300-hour closely supervised field experience under the direction of a graduate faculty member. The course will build on and extend the School Counseling Field Experience I. The student will acquire counseling competencies and ethical practice in keeping with the Missouri state guidelines for school counselors. Students will receive 1.5 hours of group and 1 hour of individual supervision weekly by field experience site supervisor.

**6300 Foundation of Community Counseling (3)**

Prerequisites: Cns Ed 6000 with a grade of B or better and Cns Ed 6010. A study of counseling profession applicable to a variety of human service settings. Introduction to the basic philosophical, historical, and psychological foundations of community and agency counseling. Designed to acquaint the student with the foundations and roles of the counselor in various community and agency settings.

**6370 Community Counseling Practicum (1-6)**

Prerequisite: Cns Ed 6000 and 6010 and consent of instructor. One hundred clock hours of supervised practice in counseling to provide the opportunity for students to pragmatically integrate and process materials, theories, techniques, and methodologies as they are applied in the counseling profession.

**6380 Community Counseling Field Experience (1-6)**

Prerequisite: Cns Ed 6370 and consent of instructor. A 100-hour field experience for each semester-credit-hour of enrollment. Students will be closely supervised under the direction of a graduate faculty member. Students must demonstrate counseling competencies and skillful ethical practice. Students will receive 1.5 hours of group supervision weekly by a graduate faculty member and 1 hour of individual supervision weekly by field experience site supervisor during terms of enrollment.

**6400 Career Information and Development (3)**

Prerequisites: Cns Ed 6000 with a grade of B or better and graduate standing. Emphasis is on the nature of the changing labor market and the impact on personal, social, economic, career and educational aspects of individuals and society. Use of occupational and educational information systems and resources to assist with career decisions are examined. The needs of culturally diverse populations are discussed. Use of career and labor market information and programs such as computer technology to access up-to-date career and labor

market information is explored. Techniques and methods of career counseling are discussed. Various theories of career development and career choice will be examined.

**6404 Seminars (1-10)**

Prerequisite: Graduate Standing

**6410 Advanced Career Development (3)**

Prerequisites: Cns Ed 6400 or consent of instructor. Emphasis is on current theories of career development, career choice, and techniques and methods of career counseling. Issues concerning education and training, work, leisure, the family, life roles, and culturally diverse populations are studied. The role of career theory in planning, development, and delivery of a career development program is explored.

**6420 Career Assessment in Counseling and Rehabilitation (3)**

Prerequisites: Cns Ed 6050 and 6400 or consent of instructor. This course provides an in-depth and specialized look at the educational and psychological assessment techniques used in career counseling, especially the assessment of career interests, work values, work environment, work skills, work samples, career development stages, career maturity, career decision making, and career beliefs. Issues of using computers in the delivery of career development services will be discussed.

**6497 Problems (1-10)****6500 Introduction to Systems Theory for Marriage and Family Counseling (3)**

Prerequisite: Cns Ed 6010. This course is an introduction to general systems theory and application to marriage and family counseling. Students learn the theoretical basis for intervention and counseling strategies in the context of an ecology of human development. Developmental issues at individual, sibling, marital, family, and community levels and the ways in which various social systems interact with and mutually influence one another are presented.

**6510 Couple Counseling and Enrichment (3)**

Prerequisite: Cns Ed 6500 or consent of instructor. This course focuses on the theory and technique of marital or couples counseling and enrichment. Models and methods for prevention and treatment of relationship dysfunction are explored. Relationship developmental issues are addressed. Students are challenged to develop the critical skills necessary to be effective marriage counselors and marital life educators.

**6520 Family Counseling (3)**

Prerequisites: Cns Ed 6500 and Cns Ed 6260 or 6370, or consent of instructor. This course offers an in-depth analysis of strategic, structural, experiential, communications, behavioral, and psychodynamic approaches to systems change and family counseling. The range of techniques and applied practices evolving from each orientation are explored as are normal and dysfunctional family processes. Various counseling modalities, such as individual, concurrent, collaborative, conjoint, group, intergenerational, and networking are also considered.

**6530 Assessment and Case Management in Couple and Family Counseling (3)**

Prerequisites: Cns Ed 6500, 6510, or 6520. Techniques measures for assessing couple, marriage and family functioning are reviewed. The case management process is outlined, including stages of case development. Ethical issues related to case recording keeping are reviewed

**6540 Preventive Interventions with Couples and Families (3)**

Prerequisite: Cns Ed 6500, 6510, or 6520. Interventions for preventing the development of mental health problems in a couple or family context are surveyed. Premarital counseling, couple and marriage enrichment training, family life education, and relationship enhancement training will be reviewed. Outreach approaches will also be presented.

**6550 Trends, Family Counseling (3)**

Prerequisites: Cns Ed 6500, 6520. The evolution of family types and structures in American cultures will be reviewed. Cultural influence on diverse system structures will be surveyed. Problems that impede family functioning and development, such as socioeconomic disadvantage, discrimination, addiction, unemployment, family blending, and abuse will be addressed, with special emphasis on the effects on family development and intervention strategies. Research data on normative and non-normative family functioning will be presented.

**6600 Theories and Techniques of Counseling Children and Adolescents (3)**

Prerequisite: Cns Ed 6000, 6010 (with a grade of B or better in both courses) or consent of the instructor. Focus is on counseling theories and their applicability to the developmental special concerns of children and adolescents including child-at-risk issues such as: abuse, suicide, divorce, and death and dying. Individual, group, and family intervention techniques and consultation skills will be emphasized, as well as legal and ethical considerations for counselors. Strategies presented can be utilized in a variety of settings. Multicultural considerations are also addressed.

**6610 Counseling Parents of Exceptional Children (3)**

The development of counseling skills to enable human service professionals to interact productively with families who have handicapped children.

**6700 Introduction to Addictive Behaviors and Addiction Counseling (3)**

Prerequisites: Cns Ed 6010 consent of instructor. Exploration of the theoretical foundations of contemporary approaches to such addictive behaviors as alcohol and drug abuse, smoking, compulsive gambling, and sexual addiction. The nature, etiology, prevention, and treatment of addictions are discussed and analyzed from a variety of theoretical perspectives. The applications of these specific theoretical models to various treatment settings are examined. Multicultural considerations are also addressed.

**6782 Advanced Strategies in Addictions Counseling (3)**

Prerequisite: Cns Ed 6700, or consent of instructor. Study of advanced, empirically supported counseling approaches and techniques for the treatment of addictive behaviors. An emphasis is placed on screening and assessment procedures and on matching interventions to individual client and community needs.

**6784 Counseling the Dual Diagnosed Substance Abuser (3)**

Prerequisites: Cns Ed 6700 and Cns Ed 6010. This course introduces the student to the special needs, concerns, and problems encountered when counseling clients who are both mentally ill and chemically dependent. Subject areas include an overview of counseling methodologies, diagnosis, and psycho-pharmacology.

**6800 Rehabilitation Counseling (3)**

Prerequisite: Cns Ed 6000; 6010; 6270; or 6370. This course addresses: a) the history of vocational rehabilitation; b) specialty issues in rehabilitation counseling; c) medical aspects of disability; d) the rehabilitation process; e) theories of rehabilitation; f) the assessment process of individuals with disabilities; g) the job placement and work adjustment process of individuals with disabilities; h) ethical issues in rehabilitation counseling.

**6810 Integrating Religion and Spirituality in Counseling (3)**

This course is for counselors and students wishing to develop the methods to integrate religion and spirituality in counseling and learn about counseling strategies for persons of various religious backgrounds, the link between health and religion, and ethics involved in the assessment and integration of religion and spirituality in practice.

**7000 Advanced Theories and Foundations of Counseling Psychology (3)**

Prerequisites: Doctoral standing or instructor consent. A seminar on the discipline of counseling psychology, including its history, development, and current status. An important focus will be contemporary and emergent theories in the field.

**7010 Advanced Multicultural Counseling (3)**

Prerequisite: Cns Ed 6030 and doctoral standing or consent of instructor. This advanced course addresses theories and research in multicultural counseling

**7020 Seminar in Counseling Research (3)**

Prerequisite: Ed Rem 6710, doctoral standing or consent of instructor. The purpose of this course is to review and analyze current counseling research literature. Ethical issues will be addressed.

**7030 Counselor Education and Supervision (3)**

An introduction to clinical supervision in counseling. Theories, models, and research in supervision will be presented. Students will supervise master's level students in practicum and internship courses in counseling.

**7040 Counseling Women Toward Empowerment (3)**

Prerequisite: Cns Ed 6000, 6010 and Cns Ed 6270 or 6370 or consent of instructor. An introduction to Women's issues in counseling. Relational theory, healthy female development, and an overview of clinical issues most common to females will be presented.

**7050 Advanced Assessment in Counseling (3)**

Prerequisite: Cns Ed 6050 and doctoral standing or consent of the instructor. This course develops advanced skills in the assessment process which includes the administration, scoring, and interpretation of psychological tests and environmental inventories, clinical interviewing, observation, and the gathering of historical and collaborative information; and the integration of this information into patterns to predict human functioning.

**7070 Psychopathology and Diagnosis in Counseling Psychology (3)**

Prerequisite: Doctoral standing or consent of instructor. This advanced course provides an in-depth look at adult psychopathology based upon the diagnostic categories of the *Diagnostic and Statistical Manual of Mental Disorders* (DSM). Contemporary theoretical, clinical, and research issues will be covered, with an emphasis on differential diagnosis.

**7200 History and Systems of Counseling and Psychology (3)**

Prerequisites: Doctoral standing or instructor consent. A review of the major theoretical systems and schools of psychology in terms of historical assumptions, methodologies, and developments.

**7600 Advocacy, Consulting, and Community Intervention in Counseling Psychology (3)**

Prerequisites: Doctoral standing or instructor consent. This course provides students with knowledge and experience in the application of psychological theories and methods to community concerns and problems.

**7770 Doctoral Practicum (3)**

Prerequisites: Doctoral standing. 100 hours of on-campus doctoral-level supervised counseling practice. Students will counsel clients and will be introduced to teaching and supervising beginning counseling trainees in a clinical context. As a prerequisite to the doctoral internship, students will be expected to demonstrate competence in skills required of counselor educators and clinical supervisors. Students will receive 1.5 hours of group and 1 hour of individual supervision by a graduate faculty member.

**7780 Doctoral Internship (1-6)**

Prerequisites: Cns Ed 7770; Ed Rem 7804 and Ed Rem 7781. A 100-hour field experience for each semester-credit hour of enrollment under the direction of a graduate faculty member. Students provide counseling services to clients at field sites, teach and supervise beginning counseling trainees, and conduct clinical research projects. Students are supervised by a graduate faculty member in two hours per week of group supervision, and they receive one hour per week of individual supervision by the field site supervisor.

**7802 Theory and Practice of Clinical Hypnosis in Counseling (3)**

Prerequisite: Cns Ed 6270 or 6370 or consent of instructor. Clinical hypnosis is conceptualized and approached as a system of skilled communication. Historical perspectives, major models (Traditional, Standardized, and Utilization [Ericksonian]), myths, and misconceptions will be explored. Students will develop skills in direct and indirect trance induction procedures, and case conceptualization with individuals and multiple participants. Legal and ethical considerations will be presented.

**7806 Practicum in Group Counseling (3)**

Prerequisite: Cns Ed 7804 and doctoral standing or consent of instructor. Students will lead or co-lead a supervised counseling group in the community.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

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### Division of Educational Leadership and Policy Studies Home Page

#### Faculty

**E. Paulette Isaac-Savage**, Associate Professor, Chairperson  
 Ed.D., University of Georgia

**Lynn Beckwith, Jr.**, E. Desmond Lee Professor in Urban Education  
 Ed.D., St. Louis University

**Judith A. Cochran**, E. Desmond Lee Professor in Tutorial Education  
 Ph.D., Arizona State University

**Kent Farnsworth**, Mary Ann Lee Endowed Professor of Community College Leadership Community College  
 President in Residence  
 Ph.D., University of Iowa

**Lowe S. (Sandy) MacLean**, Vice Chancellor Emeritus  
 Ed.D., Indiana University-Bloomington

**Lloyd I. Richardson Jr.**, Professor  
 Ph.D., George Peabody College of Vanderbilt University

**Charles D. Schmitz**, Professor, Dean  
 Ph.D., University of Missouri-Columbia

**Joy E. Whitener**, Dean Emeritus, Professor Emeritus  
 Ed.D., Washington University

**Patricia Boyer**, Associate Professor  
 Ph.D., University of Missouri-Columbia

**Kathleen Sullivan Brown**, Associate Professor  
 Ph.D., Washington University

**Charles J. Fazzaro**, Associate Professor  
 Ed.D., West Virginia University

**John A. Henschke**, Associate Professor Continuing Education Specialist, University of Missouri Extension-East  
 Central Region  
 Ed.D., Boston University

**Carol A. Murphy**, Associate Professor  
 Ed.D., Texas A&M University

**Thomas R. Schnell**, Associate Professor  
 Ph.D., Southern Illinois University, Carbondale

**Shawn Woodhouse**, Associate Professor  
 Ph.D., University of Missouri-Columbia

**Wendell L. Smith**, Assistant Professor Special Assistant to the Chancellor and Dean Emeritus  
 Ph.D., Ohio State University

**Matthew D. Davis**, Assistant Professor  
 Ph.D., University of Texas, Austin

**James E. Murray**, Assistant Professor  
 Ph.D., University of Missouri-St. Louis

**Pi Chi Han**, Assistant Professor  
 Ed.D., University of Arkansas

**Ken Owen**, Associate Teaching Professor  
 Ed.D., Saint Louis University

**Margaret R. Dolan**, Assistant Teaching Professor  
 Ph.D., St. Louis University

**John Ingram Jr.**, Associate Teaching Professor  
 Ph.D., University of Wisconsin-Madison

## General Information

The Division of Educational Leadership and Policy Studies (ELAPS) faculty is housed on the second floor of Marillac Hall. Questions about the division and its offerings may be directed to the division office, 269 Marillac Hall (314)516-5944.

## Graduate Studies

The ELAPS Division offers graduate programs in:

- K-12 Administration: including Missouri State School Administrator Certifications
- Higher Education: including Community College
- Adult and Community Education

### K-12 School Administration:

Includes academic degree programs at the master's (M.Ed.), specialist (Ed.S.), and doctoral (Ed.D. and Ph.D.) levels. These programs are consistent with the academic requirements for Missouri State certification for elementary, middle, and secondary school administration as well as school superintendent and special Education administration. The programs are accredited by the National Council for Accreditation of Teacher Education (NCATE) and the Missouri Department of Elementary and Secondary Education (DESE).

The Programs in K-12 school administration are not merely a list of courses. The M.Ed. and Ed.S. degree programs are organized into a continuous two-phase academic/practice experience. In the first phase the students earn the M.Ed. degree and meet the academic requirements for the initial Missouri State elementary and secondary school administrator's certificates. The second phase leads to the Ed.S., concentrating more on the relationship of academics to practical schooling experiences and solution to school-based problems. With proper selection of courses in the Ed.S. phase, students can meet most of the academic requirements for the Missouri school superintendent's certificate. Please see your advisor for specifics regarding the superintendent certification.

### Education Specialist (Ed.S.) in Education Administration

The Education Specialist Degree (Ed.S.) in Education Administration is a logical extension of the UM-St. Louis M.Ed. in Education Administration and is designed to prepare administrators to serve in school settings from Kindergarten to grade twelve. The Ed.S. in Education Administration requires at least sixty (60) graduate credit hours of a planned program and may include no more than thirty-six (36) credit hours of an approved NCATE accredited master's degree. The Ed.S. is a terminal academic degree within the College of Education (COE); therefore, one-half (15 credit hours) must be completed within the COE after being admitted to the program. As constituted, the minimum course requirements for the Ed.S. in Education Administration collaterally meets the academic standards for both Elementary and Secondary advanced school administrator certification in Missouri. To be recommended for the Missouri School Superintendent certificate requires an additional six (6) credit hours: a minimum total of 66 hours.

### Admission Standards

To be admitted to the Ed.S. in Education Administration program students must meet the following criteria:

1. Be admitted without qualification to the UM-St. Louis Graduate School ;
2. Have scores on the Verbal, Quantitative, and Analytical Writing sections of the Graduate Record Examination that is at least the mean for the applicant's major field.
3. Have a graduate grade point average of at least 3.25 on a scale of 4.00.
4. Have on file at least three (3) recommendations including the following: one (1) from an Educator presently occupying a position equal or similar to that which the applicant aspires upon completing the Ed.S., one (1) from a university professors with direct knowledge of the applicant's graduate degree work, and one (1) from someone other than a member of the applicant's family who can comment on the applicant's character.
5. Students already possessing a master's degree from an NCATE accredited institution may transfer those credit hour into the Ed.S. degree program; however, at least twenty-four (24) credit hours must be completed after acceptance into the program.

### Degree Program

There are three (3) phases to this degree program. **Phase 1.00** must be completed by students not possessing a UM-St. Louis M.Ed. in Education Administration and those wanting to transfer appropriate grade courses from other NCATE institutions. **Phase 2.00** applies to those students meeting all of the requirements in Phase 1.00. There are two (2) sections to **Phase 2.00**--- Section 2.10 **Technical Aspects of Education Administration** and Section 2.20 Human Aspects of Education Administration. Courses in these two sections may be taken simultaneously. There are two (2) sections to **Phase 3.00**--- Section 3.10 Writing Exit Requirements and Section 3.20 **Examination Exit Requirements**. Both sections must be completed no

sooner than one (1) semester before completing all degree requirements. Students seeking the superintendent certification must complete ten (10 specifically required courses.

### **Phase 1.00**

#### **1.00 Elementary and Secondary School Education Emphases**

##### 1.10 Contexts Core

**Ed Adm 6201**, Knowledge Contexts of Education Administration and Policy (3)

**Ed Adm 6202**, Social Contexts of Education (3)

**Ed Adm 6203**, Political Contexts of Education (3)

**Ed Adm 6204**, Economic Contexts of Education (3)

**Ed Adm 6205**, Legal Contexts of Education (3)

Required Semester Hours Section 1.10..... 15

##### 1.20 Research/Change Core (6-9 semester hours)

**\*Ed Rem 6707**, Classroom Measurement and Evaluation (3)

**\*\* Ed Adm 6301**, Education Administration and Policy Research(3)

**Ed Adm 6503**, Organizational Change in Education (3)

Required Semester Hours Section 1.20.....6-9

##### 1.30 School Specialization Core

##### 1.31 Elementary School Administration

**Ed Adm 6302**, Elementary School Administration (3)

**Ed Adm 6401**, School Staff Development and Supervision (3)

**Ele Ed 6411**, Curricular Issues in Elementary Schools **OR**

**\*\*\* Ed Adm (6900)** Internship (3)

Required Semester Hours Section 1.31.....12 **OR**

##### 1.32 Secondary School Administration

**Ed Adm 6304**, Secondary School Administration (3)

**Ed Adm 6401**, School Staff Development and Supervision (3)

**Sec Ed 6415**, Secondary School Curriculum **OR**

**\*\*\* Ed Adm 6900** Internship (3)

Required Semester Hours Section 1.32.....12

#### **TOTAL Phase I.....33-36**

\* Required if student had no equivalent course at the undergraduate level

\*\* Must be taken during the first semester of Phase 2.00 courses

\*\*\* This course must be taken within the last (10) ten semester hours of completion of Phase 1.00

### **Phase 2.00**

#### **Section 2.10**

##### **Technical Aspects of Education Administration**

(12 Semester hours required)

At least 12 graduate semester hours are required from the following list of recommended courses. Other courses must be approved by the student's advisor and ELAPS division chairperson.

**Ed Adm 6303**, Middle School Administration (3)

**Ed Adm 6305**, School District Administration (3)

**Ed Adm 6501**, Principles of Public School Finance in Missouri (3)

**Ed Adm 6502**, School Buildings and Sites (3)

**Ed Adm 6601**, Administration of Adult and Community Education (3)

**Ed Adm 6603**, Financing of Community Education (3)

**Hir Ed 6473**, Curriculum in Higher Education (3)

**Hir Ed 6476**, Organization and Administration of Higher Education (3)

**Ele Ed 4316**, Middle Level Curriculum and Instruction (3)

**Ele Ed 6411**, Curricular Issues in the Elementary School (3)

**Sec Ed 4315**, The Middle Level School (3)

**Sec Ed 6415**, Secondary School Curriculum (3)

**Sec Ed 6420**, Improvement of Secondary School Teaching (3)

**Ed Adm 6306**, Special Education Administration (3)

**Ed Tec 5340**, Selection and Utilization of Educational Media (3)  
**Ed Tec 6433**, Educational Technology Systems Management (3)  
**Ed Tec 6449**, Using Technology in Administrative Processes (3)  
**Ed Rem 6708**, Education and Psychological Measurement  
**Ed Rem 6709**, Individual Assessment of Cognitive Abilities (3)

### Section 2.20

#### Human Aspects of Education Administration

(12 semester hours required)

At least 12 graduate semester hours are required from the following list of recommended courses. Other courses must be approved by the student's advisor and ELAPS division chairperson.

**Ed Adm 6402**, School Personnel Administration (3)  
**Ed Adm 6403**, Problems in School Public Relations (3)  
**Ed Adm 6404**, Collective Negotiations in Education Organizations (3)  
**Ed Adm 6602**, Programming in Adult and Community Education (3)  
**Hir Ed 6474**, The College Student (3)  
**Hir Ed 6477**, History and Philosophy of American Higher Education (3)  
**Ed Fnd 6421**, Philosophy of Education (3)  
**Ed Fnd 6422**, Analysis of Education Issues (3)  
**Ed Fnd 6435**, History of Western Education (3)  
**Ele Ed 4317**, The Middle Level Child (3)  
**Ed Psy 6225**, Psychology of Adolescence (3)  
**Cns Ed 6200**, Foundations of School Guidance (3)  
**Pol Sc 6462**, Political Theory and Public Policy (3)  
**Pol Sc 6470**, Proseminar in Urban Politics (3)  
**Cns Ed 6200**, Foundations of School Guidance (3)  
**Ed Adm 6900**, Internship (School District Level) (3)  
**Ed Adm 6900**, Internship (Special Education Setting) (3)

Total Section 5.32..... 12

**TOTAL Education Specialist Degree in Education Administration..... 60** (inclusive of a maximum of 36 credit hours from an M.Ed. in education administration.)

### Phase 3.00

#### Writing and Examination Exit Requirements

##### Section 3.10 -Writing Requirements

At least two (2) months before the completion of all course work for the degree, each student must present to the ELAPS Division K-12 Regular faculty Ed.S. Writing Committee a **scholarly paper** on a topic approved by the student's academic advisor. The paper submitted may be original in that it has been written especially for this requirement or it may be a more comprehensive version of a paper written for a class taken after being admitted to the Ed.S. program. The paper must conform to the writing standards found in the booklet PS K-12 Writing Requirements-Form and Style. The topic and substance of the paper will be central to the oral comprehensive examination (see below).

##### Section 3.20 -Examination Requirements

There is both a written and oral portion to this examination requirement.

##### Written:

At least three (3) months before completion of all course work for the degree, each student must complete a written examination of no less than three (3) hours on two (2) topics agreed upon by the student's academic advisor and the student. The examinations will be read and evaluated on scholarly substance of content and quality of writing as either PASS or FAIL by at least two (2) Regular members of the ELAPS K-12 faculty. Students receiving a FAIL grade may retake the examination no more than twice. Students failing the examination a third time will be dropped from the program.

##### Oral:

Within two (2) weeks after receiving a PASS grade on the written portion of this examination, each student must stand to a one (1) hour oral examination by at least three (3) members of the ELAPS K-12 administration faculty (at least one must be Regular). The examination must include the student's scholarly paper and may include any other aspect of the student's program deemed important to the examiners. The grade for the oral portion will be either PASS or FAIL. Students receiving a FAIL grade may retake the oral portion of the examination no more than twice. Students failing the oral examination a third time will be dropped from the

program.

**Master of Education (M.Ed.) and Initial Missouri School Administration Certification:**

The program of study for the M.Ed. in Education Administration is thirty-three (33) graduate credit hours. All courses in the program are required and must be taken in a particular sequence. The program meets the academic requirements for either the Missouri elementary or secondary school administrator certificate.

**Degree Requirements**

**1.00 Contexts Core (15 semester hours)**

**Ed Adm 6201**, Knowledge Contexts of Education Administration and Policy

**Ed Adm 6202**, Social Contexts of Education

**Ed Adm 6203**, Political Contexts of Education

**Ed Adm 6204**, Economic Contexts of Education

**Ed Adm 6205**, Legal Contexts of Education

**1.20 Research/Change Core (6-9 semester hours)**

\***Ed Rem 6707**, Classroom Measurement and Evaluation

\*\***Ed Adm 6301**, Education Administration Policy Research

**Ed Adm 6503**, Organizational Change in Education

**1.30 School Specialization Core (12 semester hours)**

**1.31 Elementary School Administration**

**Ed Adm 6302**, Elementary School Administration

**Ed Adm 6401**, School Staff Development and Supervision

**Ele Ed 6411**, Curricular Issues in Elementary Schools

\*\*\* **Ed Adm 6900**, Internship

**1.32 Secondary School Administration**

**Ed Adm 6304**, Secondary School Administration

**Ed Adm 6401**, School Staff Development and Supervision

**Sec Ed 6415**, Secondary School Curriculum

\*\*\* **Ed Adm 6900**, Internship

\* Required if student had no equivalent course at the undergraduate level.

\*\* Exit course--must be taken during last semester of M.Ed. program.

\*\*\* Must be taken within the last 10 semester hours before completion of M.Ed. program.

Master of Education: Educational Administration with Emphasis in Community Education

This is a 32-credit hour program for students interested in community Education.

**Degree Requirements**

**2.10**

**Ed Fnd 6421**, Philosophy of Education

**Ed Fnd 6435**, History of Western Education

OR

**Ed Fnd 4330**, History of American Education

**Ed Fnd 6422**, Social Contexts of Education

**Ed Adm 6203**, Political Contexts of Education

Total Required Sem. Hrs. Section 2.10 = 12

**2.20 Research Core**

**Ed Adm 6301**, Educational Administration Policy Research

**Ed Rem 5730**, Educational Statistics

Total Required Sem. Hrs. Section 2.20 = 6

**2.30 Community Education**

**Ed Adm 6601**, Administration of Adult and Community and Education

**Ed Adm 6602**, Programming in Community and Adult Education

**Ed Adm 6900**, Internship: Community Education  
Total Required Sem. Hrs. Section 2.30 = 9

## **2.40 School Specialization \*\***

### **2.41 Elementary School Administration**

**Ed Adm 6302**, Elementary School Administration  
**Ele Ed 6411**, Curricular Issues in the Elementary School  
Total Required Sem. Hrs. Section 2.41 = 6

### **2.42 Secondary School Administration**

**Ed Adm 6304**, Secondary School Administration  
**Sec Ed 6415**, The Secondary School Curriculum OR  
Total Required Sem. Hrs. Section 2.42 = 6

**TOTAL Master of Education-Community Educ = 33**

\*Exit Requirement--Taken within the last 9 semester hours of the M.Ed. program.

\*\*Students take either section 2.41 or section 2.42, not both sections.

## **Master of Education in Adult & Higher Education**

The M.Ed. in Adult & Higher Education is intended for 1) faculty and other Educators who want to improve their adult teaching skills; 2) persons who occupy and seek to advance into administrative or management positions in a variety of Educational settings; and 3) others who work with adults in a variety of agencies. The degree program includes courses in foundations, curriculum and teaching (including distance learning), organization and administration, research, and electives so that students can create an emphasis area to fit their career goals. To help address student interests, special topic seminars are offered from time to time. An internship in the student's emphasis area is a required exit experience. Students elect either the adult Education or higher Education emphasis area.

### **Admission Requirements:**

This degree program follows the policies of The College of Education and the Graduate School relating to admissions, academic standards, residency, transfer credit, time limitations, and thesis options (see Graduate Study in the Bulletin). The minimum number of hours required for the M.Ed. degree is 32 credit hours.

## **Education Requirements**

Foundation Courses (12 hours required)

### **A course focusing on the learner**

**Adu Ed 6410**, The Adult Learner (3) **OR**

**Hir Ed 6474**, The College Student (3)

### **A course in historical foundations**

**Adu Ed 6411**, History of Adult Education (3) **OR**

**Hir Ed 6477**, History and Philosophy (3)

### **A course on the improvement of instruction**

**Adu Ed 6413**, Improvement of Instruction in Adult Education (3) **OR**

**Hir Ed 6473**, Curriculum in Higher Education (3) **OR**

**Ed Psy 7647**, Teaching for Learning in the University (3)

### **One of the following:**

**Adu Ed 6412**, Philosophical Foundations of Adult Education (3)

**Adu Ed 6414**, Curriculum Theory & Development in Adult Education (3)

**Hir Ed 6476**, Organization and Administration (3)

Adult and Higher Education Electives (12 hours minimum)

**Adu Ed 4311**, Teaching Basic Reading Skills to Adults (3)

**Adu Ed 4410**, The Non-Traditional Adult Learner (3)

**Adu Ed 6340**, Comparative International Adult and Higher Education (3)

**Adu Ed 6430**, Comparative Education: Adult & International (3)

**Adu Ed 6411**, History of Adult Education (3)

**Adu Ed 6416**, Survey of Adult Distance Education (3)

**Adu Ed 6417**, Multicultural Issues in Adult Education (3)

**Adu Ed 6418**, Assessment in the Adult Classroom (3)

**Adu Ed 6230**, Adult Learning and Development (3)

**Adu Ed 6420**, Survey of Human Resource Development & Adult Ed (3)

**Adu Ed 6424**, Intervention Determination in Adult Learning and Human Resource Development (3)  
**Adu Ed 6425**, Principles of Business Education (3)  
**Adu Ed 6426**, Coordination of Cooperative Vocational Programs (3)  
**Adu Ed 6427**, Improvement of Instruction in Teaching Business Subjects (3)  
**Adu Ed 6432**, Teaching in the Community College (3)  
**Adu Ed 6435**, Problems in Teaching College Biology (3)  
**Adu Ed 6494**, Directed Readings in Adult Learning (3)  
**Adu Ed 6497**, Problems in Adult Education (3)  
**Adu Ed 6404**, Seminar in Adult Education Research (3)  
**Hir Ed 5401**, Current Issues in Higher Education (3)  
**Hir Ed 5402**, Student Affairs Administration (3)  
**Hir Ed 6404**, Seminar (3)  
**Hir Ed 6405**, Economics and Finance (3)  
**Hir Ed 6406**, Governance of Higher Education (3)  
**Hir Ed 6420**, Legal Aspects of Higher Education (3)  
**Hir Ed 6421**, Legal Aspects of Postsecondary Teaching (3)  
**Hir Ed 6422**, Policy Analysis of Higher Education (3)  
**Hir Ed 6430**, The Community College (3)  
**Educ 6308**, Foundations of Adult Basic Education (3)  
**Ed Adm 6461**, Administration of Adult and Community Education (3)  
**Ed Adm 6462**, Programming in Adult and Community Education (3)  
**Ed Psy 6111**, Psychology of Education (3)  
**Ed Tec 5340**, Selection and Utilization of Educational Multimedia (3)  
**Ed Tec 6415**, Teaching and Learning with Technology: Authoring Tools (3)  
**Ed Tec 6416**, Teaching and Learning with Technology: Data Rep. Tools  
**Ed Tec 6436**, Computer-Mediated Communication in Education (3)  
**Ed Tec 6437**, Distance Learning via Networks and Telecommunications (3)  
**Ed Tec 6452**, Educational Multimedia Design (3)  
**Ed Tec 6454**, Instructional Video Production (3)

Research Course(s) (3-6 hours required)

**Ed Rem 6710**, Research Methods\* (3)  
**Ed Rem 6707**, Classroom Measurement and Evaluation (3)  
**Ed Rem 6709**, Educational & Psychological Measurement (3)  
 \*Required for Higher Education

Exit Requirement (3 hours required)

One of the following taken during the 9 semester hours of the program

**Hir Ed 6490**, Internship or Thesis in Higher Education (3)  
**Adu Ed 6990**, Internship in Adult Education (3)

#### **Adult Basic Education Certification**

**\*Adu Ed 4311**, Teaching Basic Reading Skills to Adults  
**\*Ele Ed 6455**, Problems of Teaching Arithmetic in the Elementary School or **Ele Ed 4346**, Advanced Methods in Elementary School Mathematics

\*Eight semester hours from these six courses, and 3 hours of adult Education electives, in addition to Spc Ed 3313, Psychology and Education of Exceptional Individuals, are required for five-year certification from the Missouri Department of Elementary and Secondary Education.

#### **Adult Basic Education (ABE) Certification**

1) Requirements for two-year teacher's certificate in ABE:

- a. A holder of a bachelor's degree from a four-year college or university.
- b. Annual attendance at Department of Elementary and Secondary Education (DESE) approved adult basic Education teacher certification workshops.

(The two-year ABE certificate may be renewed twice. Requirements for a five-year certificate must be completed by the end of the sixth year.)

2) Requirements for a five-year teacher's certificate in ABE:

- a. Hold a bachelor's degree from a four-year college or university.
- b. Earn eight semester hours in DESE-approved adult Education classes, institute or workshops.

(The five-year ABE certificate may be renewed an unlimited number of times by repeating the requirements during the previous five years.)

**Note:** This would provide certification for (1) ABE teachers who are teaching less than half time and/or without a contract and/or not in a public school or an accredited private school and (2) ABE teachers with bachelor's degrees who have experience teaching adults, but do not have regular teacher certification. Information is available for professional certificates for full-time ABE teachers.

### **Graduate Certificate in Institutional Research**

The Post-Master's Certificate in Institutional Research (CPIR) is for academics who want training in Institutional Research in preparation for working in an IR Office at a postsecondary institution, a government agency, or a private Education organization. The program consists of 18 hours and may be taken as part of a doctoral program. Of the 18 hours, 12 are in the required core (6 hours are in research methods and 6 hours in IR seminars), plus a 3-hour Higher Education (Hir Ed) or an Educational Research (Ed Rem) elective and a 3-hour capstone. Students may transfer up to 5 hours of post-Master's work into the program with the approval of the advisor.

### **Course Descriptions**

#### **Adult Education (Adu Ed)**

##### **4311 Teaching Basic Reading Skills to Adults (3)**

A study of the reading process and of the characteristics of adult learners with a focus on instructional techniques and materials useful in upgrading the performance of adults with deficient reading skills.

##### **4410 The Non-Traditional Adult Learner (3)**

An introduction to the non-traditional adult learner. At the completion of the course the students will be able to identify the characteristics of non-traditional adult learners and various theories of how they learn, as well as the implications of these characteristics and theories on adult education research, programming, curriculum planning and instructional practice.

##### **6230 Adult Learning and Development (3)**

Prerequisites: Ed Psy 6210 or Ed Psy 6111, or Adu Ed 6410. (Same as Ed Psy 6230). Study of how life stage theories and theories of learning pertain to adult learner. Research bases of these theories explored in relationship to instructional practice with adult learners.

##### **6404 Seminar in Adult Education Research (1-10)**

Prerequisites: Adu Ed 6410 or consent of instructor. A review of current research on various topics in the field of adult Education. An in-depth study of these research topics will be conducted. Application to the field of adult Education will be considered. Special focus will be placed on assessing and improving competency in Educational, corporate and community settings.

##### **6410 The Adult Learner (3)**

This course is designed for those who help adults learn in a variety of settings. A study will be made of the characteristics of Adult Learners and various theories of how they learn, as well as the implications of these characteristics and theories for adult Education research, programming, curriculum, planning, and instructional practice.

##### **6411 History of Adult Education (3)**

Prerequisites: Adu Ed 6410. A study of the historical foundation of Adult education in America will be studied. This includes the major theorists and their contributions; together with the continuing education of the adult in a progressive social context.

##### **6412 Philosophical Foundations of Adult Education (3)**

Prerequisites: Adu Ed 6410 or consent of instructor. A comprehensive, systematic philosophical foundation for Adult Education. Exploration of philosophical underpinnings of various approaches to education of adults--role of learner, teacher, and objectives within each philosophy.

##### **6413 Improvement of Instruction in Adult Education (3)**

Prerequisites: Adu Ed 6410 or consent of instructor. A study of selected methods and instructional techniques appropriate for the teaching of adults. An examination of current research will be made as it relates to the problems of instructing adults.

##### **6414 Curriculum Theory and Development in Adult Education (3)**

Prerequisites: Adu Ed 6410 or consent of instructor. A study of curriculum theory and its application to Adult Education. Particular emphasis will be placed on the development of model curricula for various programs in adult Education.

##### **6416 Survey of Adult Distance Education (3)**

Prerequisites: Adu Ed 6410. Survey of distance education covers concept, theories, history, present practice, delivery systems, major issues and future directions of distance learning. Emphasis on research and practice in

U.S.; however, since much of the literature in the field has been written by educators in other countries. The course will explore topics and issues in distance education from international perspective, identifying similarities and differences among countries As they relate to adult learning.

**6417 Multicultural Issues in Adult Education (3)**

Prerequisites: Adu Ed 6410. Discussion of cultural diversity from an Adult Education perspective. Topics include cultural self-awareness, challenges/issues in intercultural Educational settings, theoretical perspectives of multicultural Education, and practitioner concerns and strategies for implementing multiculturalism in Adult Education settings.

**6418 Assessment in the Adult Classroom (3)**

Prerequisites: Adu Ed (6) 6410 & Ed Rem 6707 or consent of instructor. This course addresses assessing how effectively adult educators are facilitating adult learning. Emphasis will be on knowledge and skills, learner characteristics, and learner reactions to instruction through use of formative assessment of both student learning and instructional effectiveness in the adult classroom. Special attention will focus this assessment in the adult classroom within educational, corporate, community, and non-formal settings.

**6420 Survey of Human Resource Development and Adult (3)**

Prerequisites: Graduate standing and permission of instructor. Overview of fields of human resource development and adult education. Examines societal contexts within which training of adults and organization development occur. Explores systems theory that frames a discussion of adult education, training, and organization development. Represents unique characteristics of each field will be represented as well as ways in which two fields come together, along with general concepts: definitions, philosophies, goals, sponsoring agencies, professional roles, processes, participants, and resources.

**6424 Intervention Determination in Adult Learning and Human Resource Development (3)**

Prerequisites: Adu Ed 6410. A variety of strategies will be studied with a view to examining systemic problems in workforce and adult learning situations. The determination of interventions for program planning and development is the major focus. As key outcomes for this course, learners will be able to design and develop plans and distinguished among workplace, community and Educational needs that can be met with Educational interventions and those that require other, and more appropriate, non-training solutions. While specifically focused on HRD applications, the content of this course will apply to any Educational setting for adults.

**6425 Principles of Business Education (3)**

Prerequisites: Business Education certification and consent of instructor. Designed for the business Education teacher, this course examines in depth the principles, practices, and problems of business Education programs. It emphasizes research into historical and philosophical implications, the influence of contemporary attitudes on business Education, evaluation of current programs, and development of innovative approaches. It may be applied toward Missouri Vocational Business Education certification.

**6426 Coordination of Cooperative Vocational Programs (3)**

This course deals with student selection procedures. Coordinating vocational instruction and planned employment experiences; research techniques for collecting and analyzing data for process and product evaluation; procedures for implementing new ideas and innovations in cooperative vocational Education programs. The course is designed for vocational teachers and for teachers who wish to qualify as coordinators of cooperative vocational programs. This course may be applied toward Missouri Vocational Certification.

**6427 Improvement of Instruction in Teaching Business Subjects (3)**

Prerequisites: Business Education certification or consent of instructor. Designed for business Education teachers, this course examines current trends in planning, organizing, developing, and evaluating instructional materials relevant to business Education classes. Emphasis is placed on research techniques and strategies for selecting and utilizing appropriate curriculum materials, resources, and media to match learning needs. This course may be applied toward Missouri Vocational Certification.

**6432 Teaching in the Community College (3)**

This course is designed for students considering a teaching career in the community college. The main emphasis of the course will be to expose students to the unique features of the community college with respect to the special goals of the institution, variety of degree and nondegree programs, and diversity of community college students. A second objective will be to offer a brief review of teaching techniques that will be useful in the community college classroom.

**6435 Problems in Teaching College Biology (3)**

Same as Biol 5985. Prerequisites: Teaching experience, 30 semester hours in biology, and consent of the instructor. Basic philosophies underlying undergraduate biology Education at the college level will be presented and examined with concern for establishment of an individual philosophy in the prospective college teacher. Teaching techniques suitable for college-level instruction will be considered, practiced, and evaluated. Advantages and limitations of various methods of instruction will be considered with respect to current

research findings.

**6494 Directed Readings in Adult Learning (1-6)**

Prerequisites: Graduate Standing, Adu Ed 6410 and consent of instructor. Self-directed learning, as a key concept in Adult Education, is encouraged as a means of understanding the adult experience, both personally and professionally, and is a recognized core competency in the field of Adult Education. This course consists of supervised, independent study into the current research, literature, and issues in the area of Adult Learning. Learners are given the opportunity to meet with other learners and the instructor on a regular basis to share resources, ideas, and to gain feedback.

**6497 Problems in Adult Education (1-10)**

Prerequisites: Adu Ed 6410 or consent of instructor. Independent study on topics in adult Education.

**6990 Internship (1-10)**

Prerequisites: Adu Ed 6410 or consent of instructor. Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities.

**Educational Administration (Ed Adm)**

Prerequisites may be waived by consent of the department.

**6201 Knowledge Contexts of Education Administration and Policy (3)**

Prerequisites: Admission to masters, doctoral, and/or certification programs in Education Administration or consent of instructor. This course is a survey of the various views of knowledge that have influenced the nature of the organizational structures and policies of American Educational institutions. The course is framed both by the purposes of American Education and the scientific management movement of the first quarter of the 20th Century.

**6202 Social Contexts of Education (3)**

Prerequisites: Ed Adm 6201, concurrent with Ed Adm 6201, or consent of instructor. This course is a critical examination of different perspectives on the social structures within which Education policies are constituted and their concomitant practices implemented.

**6203 Political Contexts of Education (3)**

Prerequisites: Ed Adm 6201, concurrent with Ed Adm 6201, or consent of instructor. This course is a critical examination of those aspects of local, state, and federal politics which significantly influence the political contexts within which Education policies are constituted and their concomitant practices implemented.

**6204 Economic Contexts of Education (3)**

Prerequisites: Ed Adm 6201, concurrent with Ed Adm 6201, or consent of instructor. This course is a critical examination of those aspects of local, state, and national economic structures which influence the nature of Education policies and their concomitant practices.

**6205 Legal Contexts of Education (3)**

Prerequisites: Ed Adm 6201, concurrent with Ed Adm 6201 or consent of instructor. This course is a critical examination of both (1) local, state, and federal laws and (2) Western notions of justice within which Education policies are constituted and their concomitant practices implemented.

**6301 Education Administration Policy Research (3)**

Prerequisites: Completion of at least twenty-four (24) credit hours towards the M.Ed. in Education Administration or consent of instructor. A study of issues and trends in basic, applied, and action research in Educational policy making.

**6302 Elementary School Administration (3)**

Prerequisite: Completion of at least (15) credit hours of the M.Ed. in Education Administration or consent of instructor. This course is a comprehensive, systematic study of the elementary school principalship. Emphasis is placed on relating theories of learning, teaching, and organization to effective administration of elementary schools.

**6303 Middle School Administration (3)**

Prerequisites: Completion of at least (15) credit hours of the M.Ed. in Education Administration or consent of instructor. This course is a comprehensive, systematic study of the middle school principalship. Emphasis is placed on relating theories of learning, teaching, and organization to effective administration of middle schools.

**6304 Secondary School Administration (3)**

Prerequisites: Completion of at least (15) credit hours of the M.Ed. in Education Administration or consent of

instructor. This course is a comprehensive, systematic study of the secondary school principalship. Emphasis is placed on relating theories of learning, teaching, and organization to effective administration of secondary schools.

**6305 School District Administration (3)**

Prerequisite: Enrolled in Ed.S. Certification Program and/or consent of instructor. Course focuses on current research about school district administration; also deals with major central office issues including: board/superintendent relations, central office organization, the function and authority of assistant superintendents and program directors, and the administrative team approach to school district administration.

**6306 Special Education Administration (3)**

Prerequisites: Completion of graduate degree in Special Education, Education Administration or consent of instructor. A study of organizational issues in special Education and implications for practices and procedures. Specific attention will be given to special Education delivery systems, compliance standards, funding sources, and regulatory standards.

**6307 Integrated Curricula for Special Education Administrators (3)**

Prerequisites: Graduate Standing. Development of skills to understand, supervise and evaluate the integration and differentiation of curriculum. Intended for special education administrators.

**6315 Middle School Educational Philosophy (3)**

Prerequisites: Graduate standing. An in-depth examination of the Educational philosophy and historical basis of middle level schools, and the relationship between philosophy and middle school organizational practices. Includes a review of the research, organizational structures and current trends and practices.

**6317 Supervision and the Middle School Child (3)**

Prerequisites: Graduate standing. The unique developmental characteristics and needs of early adolescents are explored through a variety of supervisory activities involving middle level students, teachers, administrators. The implications of economic and ethnic diversity for middle level schools will also be addressed.

**6401 School Staff Development and Supervision (3)**

Prerequisite: Ed Adm 6201, concurrent with Ed Adm 6201, or consent of instructor. This course provides an examination of the conceptual bases and practical applications of staff development and supervision in Educational settings. It explores relevant conceptual models presented as heuristic devices to consider a variety of administrative techniques to assess needs, plan, deliver, and evaluate staff development and supervision programs in schooling.

**6402 School Personnel Administration (3)**

Prerequisite: Advanced graduate standing and/or consent of instructor. This course is a comprehensive, systematic study of problems in planning, recruitment, selection, induction, and retention relative to school personnel.

**6403 Problems in School Public Relations (3)**

Prerequisites: Advanced graduate standing and/or consent of instructor. This course is an examination of a range of both traditional and critical perspectives relevant to home-school-community relations.

**6404 Collective Negotiations in Educational Organizations (3)**

Prerequisites: Advanced graduate standing and/or consent of instructor. This course focuses on the concepts, issues, and processes involved with collective negotiations (bargaining) in American Educational organizations. The major issues addressed in the course include recognition procedures, bargaining unit determination, the scope of negotiations, the proposal and counterproposal, compromise, impasse procedures, and master contract management.

**6405 Extracurricular Activities (3)**

Prerequisites: Graduate standing and/or consent of instructor. Activities related to the extracurricular program of secondary schools will be studied in depth. Analyses of appropriate activities will include the nature and purposes of these activities.

**6406 Leadership in Educational Administration (3)**

Prerequisites: Advanced graduate standing and/or consent of instructor. This course is designed to acquaint the administrator with the factors of groups and interpersonal relationships directly affecting job performance. The consequences of various types of group relationships upon the institution will be studied in detail. The administrator will study various rationales for and methods of improving interpersonal relationships within the institution.

**6407 School Staff Development & Supervision for Special Education Administration (3)**

Prerequisites: **Completion of graduate degree in Special Education, Education Administration or consent of instructor.** This course provides an examination of the conceptual bases and practical application

of staff development and supervision for special Education settings for staffs serving special Education students. It explores relevant conceptual models presented as heuristic devices to consider a variety of administrative techniques to assess needs, plan, deliver, and evaluate staff development and supervision programs serving students with special Education needs.

**6449 Using Technology in Administration Processes (3)**

Prerequisites: A course in measurement, statistics or evaluation, or consent of instructor. (Same as Ed Tec 6449). This course will explore how the use of data analysis with technology can be applied in the administration of schools or other work settings. Administrators will explore software tools and their implications for making decisions. A case study will be completed on the implementation of a technology in a school or other appropriate setting.

**6497 Problems (1-10)**

**6501 Principles of Public School Finance in Missouri (3)**

Advanced graduate standing and/or consent of instructor. Course is designed to analyze and study critical areas of public school finance at the local and state levels, highlighting the role of such factors as legislative procedures, principles of local and state support, budgeting and accounting procedures, assessment of property, etc.

**6502 School Buildings and Sites (3)**

Prerequisites: Advanced graduate standing and/or consent of instructor. This course deals with methods and procedures for (1) projecting the future building and facility needs of a public school district, (2) supervising actual planning and construction of Educational facilities, (3) optimizing the use of current facilities, and (4) maintenance of buildings, grounds, and equipment.

**6503 Organizational Change in Education (3)**

Prerequisite: Advanced graduate standing and/or consent of instructor. This course deals with (1) developing strategies for assessing Educational needs, (2) methods of assessing the school's organizational health, (3) the designing of Educational change strategies involving theory-based models, (4) using systems-analysis techniques to implement Educational change, and (5) methods of involving students and staff in incorporating meaningful organizational change strategies in Educational institutions.

**6504 Organizational Change in Special Education Administration (3)**

Prerequisites: Advanced graduate standing and/or consent of instructor. This course deals with developing strategies for assessing special Educational needs, methods of district wide self-assessment of inclusive practices, the designing of Educational change strategies involving theory based models, using collaborative-problem solving techniques to implement Educational change, and methods of involving students and staff in incorporating meaningful organizational change strategies in special Education.

**6601 Administration of Adult and Community Education (3)**

Prerequisites: Graduate standing and/or consent of instructor. A course designed to familiarize the student with the structure, purpose, and processes of community Education with particular emphasis being placed on the administrative theories and functions of adult Education.

**6602 Programming in Community and Adult Education (3)**

Prerequisite: Ed Adm 6601 and/or consent of instructor. Study and analysis of basic situations in which community and adult Educational programming take place. Within this framework, application will be made of a fundamental series of steps essential to sound Educational programming.

**6603 Financing of Community Education (3)**

Prerequisites: Graduate standing and/or consent of instructor. The student will develop the necessary skills needed to construct an operational budget for the administration of community Education programs. Emphasis will be placed on developing a support base from federal, state, and local funding resources. The student will be exposed to proposal writing and funding procedures.

**6800 Education Policy Studies Seminar (1-6)**

Prerequisites: Admission to doctoral program and consent of instructor. Intensive directed study of selected Education policy issues.

**6900 Internship (1-10)**

Prerequisite: Consent of instructor. Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities.

**7050 The Research Process I: Framing Research Questions within the Education Literature (3)**

(Same as Educ 7050) Prerequisites: **Admission to the Ed.D. or Ph.D. in Education Programs.** An overview

of the essential elements of research proposals and familiarization with the techniques and tools used to identify important research questions within the Education literature. Emphasis is placed on exploring the research literature and both framing and justifying research questions within that literature.

**7150 Educational Inquiry (3)**

Prerequisites: Ed Adm 7050. This course is required for doctoral students in the Educational Administration program. The course supports the development of the student's individual research topic and explores options for methodological approaches to Education policy and administration issues.

**7250 The Change Process in Schools and School Districts (3)**

Prerequisites: Ed Adm 7050 and Ed Adm 7150 Advanced study of the literature pertaining to the theories of action and strategies for leading and sustaining change in schools and school districts. Emphasis is on the framing of research questions through the perspective of the literature on the change process in the schools.

**7800 Education Administration Doctoral Seminar (1-6)**

Prerequisites: Admission to doctoral program and consent of instructor. Intensive directed study of selected issues related to the administration of Educational institutions.

**Higher Education (Hir Ed)****5401 Current Issues in Higher Education (3)**

Prerequisites: Graduate admission. Familiarizes student with nature and characteristics of American higher Education--structure of higher Education, roles played by various constituencies, and current issues.

**5402 Student Affairs Administration (3)**

Prerequisites: Graduate admission. Survey course in student personnel administration with emphasis on understanding college student and on learning ways to meet his/her academic and nonacademic needs.

**6404 The Seminar (1-10)**

Prerequisites: Graduate standing.

**6405 Financial Issues in Higher Education (3)**

Prerequisites: Graduate standing. Provides an overview of the state/federal funding mechanisms for higher Education in the U.S. Addresses practices in budgeting at various types of postsecondary institutions.

**6406 Governance of Higher Education (3)**

Prerequisites: Graduate admission. Concentrates on study of unique system of governance in higher Education, including faculty, institutional, system, and state governing mechanisms.

**6408 Legal Issues in Student Affairs (3)**

Prerequisites: Graduate Standing. Provides an exploration of the legal and philosophical principles that guide decision-making in higher education institutions and the courts. It also includes a detailed, in-depth analysis of legal cases that have an impact on students in private and public two- and four-year colleges and universities in the United States.

**6420 Legal Aspects of Higher Education (3)**

Prerequisites: Graduate admission. Examines legal rights and responsibilities of faculty, students, staff, and administrators. Includes fair employment, due process, affirmative action, and liability.

**6421 Legal Aspects of Postsecondary Teaching (3)**

Prerequisites: Graduate admission. Examines legal issues of interest to faculty. Areas include faculty (contracts, grievances/appeals/affirmative action, free speech, tenure) and student (disability, sexual harassment, academic integrity, free speech, classroom incivility, student behavioral standards, grades) issues.

**6422 Policy Analysis of Higher Education (3)**

Prerequisite: Graduate admission. Introduces students to the analysis of higher Education public policy. Includes state and local policy analysis and examination of legislative history of major federal higher Education laws.

**6430 The Community College (3)**

Prerequisites: Graduate admission. Develops an understanding of the two-year college--its past, present, and future. Examines history, operations, funding, internal constituents, curricular mission, societal role, and current issues.

**6431 Community College Leadership (3)**

Prerequisites: Graduate admission. Introduces students to leadership theory and practice and the literature of leadership development. Applies theory and practice to the unique role of the leader in community colleges, including the community college presidency. Particular emphasis is given to the diverse roles expected of the

successful leader in today's community college.

**6432 Current Issues in Community College Education (3)**

Prerequisites: Graduate admission. A review and analysis of current issues affecting community college students, instruction, administration, policy and community relations. Hir Ed 6430, The Community College, is recommended before taking this course for those not currently working in community college settings.

**6435 The International Community College (3)**

Prerequisites: Hir Ed 6430. Exploration of the development of systems of post secondary Education throughout the world that mirror all or parts of the mission of the community college system in the United States. The course takes a comparative approach to examining the history, philosophy, structure, curriculum and student characteristics of these international systems, using the American system as a point of reference.

**6440 Issues in Institutional Research I (3)**

Prerequisites: Graduate standing. Provides a history and overview of institutional research in postsecondary Education. Other areas of interest include student issues, student outcomes, higher Education funding, productivity funding, and legal issues.

**6441 Issues in Institutional Research II (3)**

This course provides the study of key issues in institutional research, including faculty workload and salary, program assessment, fact books, peer institutions, national databases, and strategic planning.

**6473 Curriculum in Higher Education (3)**

Prerequisites: Graduate standing and/or consent of instructor. The development, implementation, and assessment of curriculum in higher Education as well as historical and philosophical perspectives; major figures and emerging trends are included.

**6474 The College Student (3)**

Prerequisites: Graduate standing and/or consent of instructor. A comprehensive overview of the theories and research related to college and university student development. Particular attention is given to student demographics, patterns of growth and development, and attitudinal changes.

**6476 Organization and Administration of Higher Education (3)**

Prerequisites: Graduate standing and/or consent of instructor. This course includes the study of the missions, governance, and organizational structures of American higher Education institutions. Within this context, particular attention is given to administrative roles, responsibilities, and issues of leadership.

**6477 History and Philosophy of American Higher Education (3)**

Prerequisites: Graduate standing and/or consent of instructor. This course is a systematic study of the historical and philosophical contexts that have conditioned the evolution of American higher Education. Particular attention is given to significant events, trends, and movements within American higher Education.

**6497 Problems (1-10)**

Prerequisites: Graduate standing and/or consent of the instructor.

**6900 Internship (1-10)**

Prerequisites: Graduate standing and/or consent of the instructor. Closely supervised experience in a field under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities.

**6930 International Community College Internship (3)**

Prerequisites: Hir Ed 6430 and consent of instructor. Supervised experience in an international community college setting under the direction of a graduate faculty member will include planning, research, evaluation, and related professional activities. Participants will be expected to both provide administrative or instructional assistance to the host college, and complete research related to the setting and experience.

**7800 Higher Education Doctoral Seminar (1-6)**

Prerequisites: Doctoral standing and/or consent of instructor. Intensive directed study of selected issues related to the administration of higher Education institutions.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

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#### Faculty

**Matthew W. Keefer**, Associate Professor and Chair  
Ph.D., University of Toronto

**Wolfgang Althof**, Theresa Fischer Endowed Professor of Citizenship Education,  
Dr. Phil., University of Fribourg and Dr. Phil. Habil, Carl-Von-Ossietzky

**Marvin W. Berkowitz**, Sanford N. McDonnell Professor of Character Education  
Ph.D., Wayne State University

**Thomas E. Jordan**, Curator's Professor of Child Development, Professor Emeritus  
Ed.D., Indiana University

**William L. Franzen**, Professor, Dean Emeritus  
Ph.D., University of Wisconsin

**Michael W. Bahr**, Associate Professor  
Ph.D., Indiana University

**Victor A. Battistich**, Associate Professor  
Ph.D., Michigan State University

**Brenda Bredemeier**, Associate Professor  
Ph.D., Temple University

**Margaret W. Cohen**, Associate Professor, Associate Provost Academic Affairs, Director, Center Teaching and Learning  
Ph.D., Washington University

**Cody S. Ding**, Assistant Professor  
Ph.D., University of Minnesota

**Donald A. Gouwens**, Assistant Clinical Professor  
Psy.D., Central Michigan University

**Clark J. Hickman**, Assistant Professor and Associate Dean of Continuing Education and Outreach  
Ed.D., University of Missouri-St. Louis

**Stephen A. Sherblom**, Assistant Professor  
Ed.D., Harvard University

#### General Information

Faculty in the Division of Educational Psychology, Research, and are housed on the fourth floor of Marillac Hall. Information about course offerings may be obtained in the division office, 402 Marillac Hall.

At the undergraduate level, the division coordinates Educational psychology and measurement courses required in the various B.S. in Education degree programs.

At the graduate level, the division offers courses in Educational psychology and in Educational research and evaluation methods required in the various M.Ed. degree programs and in the doctoral programs. Students choosing to pursue a Ph.D. in Education may elect an emphasis in Educational psychology. The Missouri certificate in school psychology is coordinated through this division.

#### Educational Specialist in School Psychology

The Educational Specialist in School Psychology (Ed.S.) degree program at the University of Missouri-St. Louis provides training in data-based problem solving with particular attention to interventions and Educational outcomes within a cognitive-behavioral theoretical perspective. The program promotes a unique set of professional values through its emphasis on:

- Data-based decision making

- Educational and psychological treatment outcomes
- Multicultural diversity
- Program development and evaluation
- Facilitation of organization change

The Ed.S. is a terminal degree program designed to prepare future school psychologists to work in school settings. Graduates of the program are immediately eligible for School Psychologist Certification from the Missouri Department of Elementary and Secondary Education and are qualified to apply for the National Certified School Psychologist credential from the National Association of School Psychologists.

The Ed. S. in School Psychology degree program consists of 60 hours of graduate coursework that prepares school psychologists for professional roles as data-based problem solvers. In addition to courses in psychological and Educational foundations, assessment, and direct interventions, a primary emphasis within the program is upon prevention and early intervention of academic, behavioral, and social-emotional problems through consultation, interdisciplinary collaboration, and systems-level interventions. Throughout the program, including 500-hours of supervised practicum and a year-long 1,400 hour internship in the schools, students work closely with the school psychology faculty and field-based supervisors to develop practical skills.

Admission requirements include a 3.0 undergraduate GPA, current GRE scores (combined verbal and quantitative score of 1000 recommended), two letters of recommendation, a personal statement describing professional goals (not to exceed five double-spaced typed pages), and a personal interview with members of the school psychology faculty. Prerequisite coursework in developmental psychology and statistics is required for admission. Conditional acceptance into the program may be granted pending completion of prerequisites and/or satisfactory progress in the program (i.e., 3.0 graduate GPA) for students who lack prerequisites or do not quite meet the admission requirements. All required application materials will be considered equally when making admission decisions. Applications are reviewed annually with a **March 1** deadline.

The Ed.S. in School Psychology degree program involves three years of intensive, full-time training; however, students may be able to complete up to half of the curriculum on a part-time basis provided they satisfy the university residency requirement. Credit may be granted for graduate coursework completed prior to entering the program, but a minimum of 30 graduate credit hours must be completed at the University of Missouri-St. Louis. Students who plan to enroll in the Ed.S. in School Psychology degree program as a part-time student are advised to meet with their adviser and develop a professional Education plan at the start of their program. Please note the internship year involves a full-time placement with a school district during an academic school year and cannot be completed part-time.

### **Educational Specialist in School Psychology (Ed..S.)**

Curriculum:

#### **Fall I**

- Ed Psy 6210**, Life Span Development
- Ed Psy 6530**, Foundations of School Psychology
- Ed Rem 6716**, PsychoEducational Assessment and Intervention I
- Ed Rem 6750**, Advanced Research Design in Education

#### **Spring I**

- Ed Psy 6310**, Psychology of Learning Processes
- Ed Psy 6550**, Professional Issues in School Psychology
- Ed Rem 6718**, PsychoEducational Assessment II
- Ed Rem 7771**, Quantitative Research Methods I

#### **Summer I**

- Cns Ed 6010**, Theories of Counseling
- Ed Psy 6532**, PsychoEducational Differences

#### **Fall II**

- Ed Psy 6536**, Biological Bases of Behavior
- Ed Psy 6540**, PsychoEducational Interventions
- Ed Psy 6545**, Consultation in Schools and Related Settings
- Ed Psy 6590**, School Psychology Practicum I

#### **Spring II**

- Ed Psy 6542**, Psychotherapeutic Interventions in School Psychology
- Cns Ed 6030**, Foundations for Multicultural Counseling
- Ed Rem 6730**, Educational Program Evaluation
- Ed Psy 6591**, School Psychology Practicum II

#### **Fall III**

**Ed Psy 6991, School Psychology Internship****Spring III****Ed Psy 6991, School Psychology Internship (Praxis II School Psychology Examination and Case Study)****Graduate Certificate in School Psychology**

The Graduate Certificate in School Psychology is a 30-hour certificate program designed specifically for students who already possess graduate degrees and wish to work toward certification as a School Psychologist in Missouri. The program consists of a coordinated curriculum of school psychology specialty courses that provide partial completion of the 60 graduate hours required for certification as a School Psychologist in Missouri. Please note that the Graduate Certificate in School Psychology is a university certificate and not state certification; it can be completed en route to state certification, but additional coursework is required (e.g., internship). Applicants should submit official undergraduate and graduate transcripts, current GRE scores, two letters of recommendation, and a personal statement describing professional goals (not to exceed five double-spaced typed pages). The final step of the admission process involves a personal interview with a school psychology faculty member to explore career aspirations, review graduate transcripts, and develop a professional Education plan tailored to the individual needs of the student. Graduate coursework completed within six years will be considered for credit toward the certificate and/or certification on an individual basis, but a minimum of 12-hours of graduate coursework must be completed at the University of Missouri-St. Louis to satisfy the university residency requirement. Again, please note that state certification as a School Psychologist typically involves additional coursework beyond the requirements for the Graduate Certificate in School Psychology as outlined below.

**Courses:****Foundations (9 hours)****Ed Psy 6530, Foundations of School Psychology****Ed Psy 6550, Professional Issues in School Psychology****Ed Psy 6532, Psycho-Educational Difference in Children****Psycho-Educational Assessment (6 hours)****Ed Rem 6716, Psycho-Educational Assessment I****Ed Rem 6718, Psycho-Educational Assessment II****Interventions (9 hours)****Spc Ed 6444, Education of Learners with Learning Disabilities****Ed Psy 6540, Psycho-Educational Interventions in Childhood****Ed Psy 6545, Consultation in Schools and Related Settings****Supervised Experience (6 hours)****Ed Psy 6590, School Psychology Practicum****Graduate Certificate in Program Evaluation and Assessment in Education**

The Graduate Certificate in Program Evaluation and Assessment in Education provides specialized study in the theory and practice of program evaluation and assessment. The program will build on the content area knowledge base of the individual's bachelors or masters degree. The focus of the Program Evaluation and Assessment in Education certificate will be on the skills delineated in the standards and guidelines of the American Evaluation Association and the Joint committee on Standards in Educational Evaluation. The certificate will consist of 30 hours of core courses and internship experiences. Graduate credits earned in equivalent courses in Education or related Social Science disciplines may meet some of these requirements. Ed Rem 6710 Educational Research Methods and Design or its equivalent is prerequisite to all the courses in the Research Methods and Statistics focus area.

**Courses:****Program Evaluation (12 credit hours)****Ed Rem 6730, Educational Program Evaluation (3)****Ed Rem 6732, Advanced Theory and Practice in Educational Program Evaluation (3)****Ed Rem 6990, Internship (6)****Testing and Measurement (9 credit hours)****Ed Rem 6707, Classroom Measurement and Evaluation (3)****Ed Rem 6709, Educational and Psychological Testing (3)****Ed Rem 7711, Advanced Test Theory in Education (3)****Research Methods and Statistics (9 credit hours)****Ed Rem 6712, Survey Research Methods in Education (3)****Ed Rem 7771, Quantitative Research Methods I (3)**

**Ed Rem 7781, Qualitative Methods in Educational Research I (3)****Course Descriptions**

Courses in this section are grouped as follows: **Educational Psychology (Ed Psy) and Educational Research and Evaluation Methods (Ed Rem)**

**Educational Psychology (Ed Psy)****2212 Introduction to Learners and Learning (3)**

Prerequisite: Psych 1003. Same as Tch Ed 2212 Foundational study of the development of infants, children and adolescents focusing on the role of appropriate Educational environments in fostering positive physical, cognitive, social, and moral outcomes. Reading relevant research will be combined with experiences in the field and technology-based assignments to investigate both biological and sociocultural forces that shape the development process. A minimum of 10 field experience hours required.

**3312 The Psychology of Teaching and Learning (3)**

Prerequisites: Tch Ed 2210, Tch Ed 2211, Tch Ed 2212 or equivalents and admission to Teacher Education program. (Same as Tch Ed 3312). Application of the principles of psychology to an understanding of the dynamics of teaching behavior and learning behavior. Involves both theoretical and practical approaches to analysis of the learning environment of the school. Required of all who are preparing to teach. Includes a field experience.

**3525 Education and the Psychology of Human Sexuality (3)**

(Same as Nurse 4725). The course is designed to provide Educators and other human services personnel with knowledge and understanding of various personal and social dimensions of human sexuality.

**6030 Instruction, Learning and Assessment (3)**

Prerequisites: Admission into Graduate School. Same as Tch Ed 6030. Uses learning as the basis for the design of classroom instruction. By applying learning theories, teachers can improve their own unit development, lessons plans, assessment strategies, and the use of technology for effective teaching. Deals with the impact of cognitive Educational research on the subject content and what is known about how people learn. Teachers will learn to critically evaluate and improve their own Educational practices, design principled and appropriate assessments based on their instructional goals, and to assess their own professional development.

**6109 Learning & Development in Secondary School Settings (4)**

Prerequisites: Graduate standing and admission to the secondary teacher Education program. Investigation of teaching and learning theories and research on the developmental needs of pre-adolescent and adolescent students. Issues of cognition, moral and social development, motivation, and assessment will be analyzed and debated. Emphasis will be on theoretical and practical approaches to constructing and analyzing a learning system. Includes field experiences.

**6111 Psychology of Education (3)**

Current psychological theories and research that guide inquiry and decision making in Education. Topics surveyed include behavior, development, learning, instruction.

**6113 Psychopathology and Diagnosis (3)**

Prerequisites: Graduate standing. Covers etiology, assessment and diagnosis of mental disorders using contemporary diagnostic systems. Course materials and assignment address the dynamics of adjustment and treatment implications for counselors, school psychologists, and others in the helping professions.

**6115 Personality and Social Development (3)**

Prerequisites: Graduate admission. A foundational course integrating major theoretical perspectives on personality and social development. Emphasis is on the dynamic interplay of social influences on personality development and personality influences on social processes. Particular consideration is given to the impact of social contexts, including the school, on development.

**6210 Life-Span: Individual and Family Development (3)**

Prerequisites: Graduate standing. Critical analysis of theories of human development including readings from empirical research and cross-cultural comparisons focusing on strategies to enhance developmental outcomes through relationship and environmental opportunity.

**6215 Psychology of Early Childhood Development (3)**

Prerequisite: Ed Psy 6111 or consent of instructor. A survey of the theories, concepts, and research which inform the field of early childhood development to help caregivers and teachers understand the cognitive, social, and emotional changes that take place from birth through the primary years of schooling.

**6217 Foundations of Citizenship Education (3)**

Prerequisites: Graduate standing. Introduction to citizenship Education providing a range of knowledge of civic participation, concepts of democracy, the democratic purposes of Education, and the developmental of civic identity and political thinking, attitudes, and engagement. Comparison of historical and contemporary approaches to democratic citizenship

**6218 Coaching Sports for Character (3)**

Prerequisites: Graduate Standing. Interdisciplinary examination of relevant theory, research and pedagogical practices related to character development through sports. Drawing from both academic and professional.

**6220 Psychology of the Elementary School Child (3)**

Prerequisite: Ed Psy 6111 or consent of instructor. Current research on the psychological changes which occur during the school age years of childhood. Includes attention to how development proceeds and to the processes that may alter its progress.

**6225 The Psychology of Adolescence (3)**

Prerequisite: Ed Psy 6111 or consent of instructor. Current research on the psychological changes which occur during adolescence. Attention is paid to the family, school, peer groups, and contemporary settings that practitioners must understand to help young people meet the psychosocial challenges of adolescence.

**6230 Adult Learning and Development (3)**

Prerequisites: Ed Psy 6210 or Ed Psy 6111, or Adu Ed 6410. (Same as Adu Ed 6230). Study of how life stage theories and theories of learning pertain to adult learners. Research bases of these theories will be explored in relationship to instructional practice with adult learners.

**6310 Psychology of Learning Processes (3)**

Prerequisite: Ed Psy 6111. Advanced study of learning and instructional theories. The historical and theoretical bases of instructional practice are examined

**6404 Seminar (1-10)**

**6417 Current Perspectives on Citizenship Education (3)**

Prerequisites: Ed Psy 6217. Seminar extends students' understanding of theory and research in citizenship Education by applying it to practical programs in the US and abroad. Analysis of assumptions underlying methods of citizenship Education and its goals. Exploration of research on methods that promote, facilitate, or inhibit civic participation and citizenship competence.

**6440 Moral Development and Education (3)**

Prerequisites: Ed Psy 6210 or Ed Psy 6220 or Ed Psy 6225 or consent of the instructor. An introduction and overview of moral psychology and its implications for creating learning environments. Questions of human morality are by nature cross-disciplinary, and readings and discussions will involve questions of epistemology, human nature, conceptions of "the good life," evidence for the malleability of human development, and research regarding the foundation, nature, and complexity of moral development.

**6444 Cognition and Technology (3)**

Prerequisites: Ed Psy 6111 or consent of instructor. (same as Ed Tec 6444). Examines cognitive theories and computer-based tools for learning. Students will gain a critical understanding of the relationship between the design of technological tools, the use of those tools in Educational settings, and their implications for learning.

**6445 Character Education and Development (3)**

Prerequisites: Ed Psy 6111 and Ed Psy 6220 or Ed Psy 6225. Critical survey of theories of character development and models for character Education in childhood and adolescence. Includes empirical and conceptual study of the nature of moral character, how it develops, and how it can be fostered in schools.

**6448 Technology-Supported Inquiry Learning (3)**

Prerequisites: Ed Tec 5340 & Ed Psy 6310, or consent of instructor (same as Ed Tec 6448). Educational technology such as networked computers and software can play a supportive role in inquiry-based learning. Students will explore the theoretical background, design issues, and pragmatic realities of technology-supported inquiry learning environments. Such learning environments are best understood as systems involving social, cultural, material and psychological aspects. Consideration will be given to the important properties of settings, activities and technologies, as well as to the role of instructors.

**6450 Advanced Methods in Character Education (3)**

Prerequisite: Ed Psy 6445. Advanced exploration of methods for promoting character development in schools: class meetings, democratic processes, cross-age learning and character curriculum development. Methods will be critically examined for their empirical and theoretical justifications.

**6497 Problems (1-10)**

**6530 Foundations of School Psychology (3)**

Prerequisites: Graduate standing. Examines the professional roles, responsibilities, and functions of psychologists in schools. Focuses on Educational foundations of school psychology including the history of the profession, organization and operation of schools, and emergent technologies.

**6532 PsychoEducational Differences in Childhood (3)**

Prerequisite: Graduate standing. Examination of classification systems used with children and adolescents in the diagnosis and treatment of Educational and physical disabilities, mental disorders, and other developmental challenges.

**6534 Behavioral Analysis of Human Learning (3)**

Prerequisite: Graduate standing. A course in the principles of human learning and the technology of behavior modification, from the perspective of the teaching and counseling professions. Emphasis is placed on its application to school learning and behavior problems and to social behavioral patterns in a variety of appropriate counseling settings.

**6536 Biological Bases of Behavior (3)**

Prerequisite: Graduate standing. Examination of biological factors affecting human behavior. Includes an overview of neuroscience, developmental psychophysiology, and basic psychopharmacology. Implications for psychological and Educational interventions are considered.

**6540 PsychoEducational Interventions (3)**

Prerequisites: Ed Rem 6716 and Ed Psy 6532 or consent of instructor. Examines academic and instructional interventions, both preventive and remedial, that are delivered in schools and related settings with children and adolescents. Emphasizes linking assessment and intervention via use of direct and indirect service delivery.

**6545 Consultation in Schools and Related Settings (3)**

Prerequisite: Ed Psy 6530 or Cns Ed 6000 or consent of instructor. An examination of theoretical principles, research, and legal and ethical issues as applied to consultation practices in schools and related settings.

**6550 Professional Issues in School Psychology (3)**

Prerequisites: Ed Psy 6530. Advanced examination of professional issues facing school psychologists including legal and ethical considerations, standards of practice, models of service delivery, and emergent technologies.

**6590 School Psychology Practicum (3)**

Prerequisites: Grade of B or better in Ed Rem 6718 and Ed Psy 6532, and consent of instructor. Introductory supervised experience in psychoEducational assessment, and interventions for academic and behavior problems in schools and related settings. Settings and responsibilities determined in consultation with program faculty and site supervisor.

**6591 School Psychology Practicum II (3)**

Prerequisites: Grade of B or better in Ed Psy 6590 and consent of instructor. Advanced supervised experience in consultation, problem solving, psychoEducational assessment and interventions for academic and behavior problems in schools and related settings. Settings and responsibilities determined in consultation with program faculty and site supervisor.

**6990 Internship (1-10)**

Prerequisite: Consent of instructor. Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities.

**6991 School Psychology Internship (3)**

Prerequisites: Grade of B or better in Ed Psy 6591 and consent of instructor. Full-time field-based placement in an approved school or Educational setting supervised by an appropriately credential school psychologist. Course may be repeated for credit.

**7640 Changing Perspectives in Educational Psychology (3)**

Prerequisites: Ed Psy 6111 and doctoral standing or consent of instructor. The advanced exploration of foundational issues in Educational psychology. Topics include theoretical perspectives of modes analysis used in the investigation of psychological theories and concepts in Education.

**7642 Sociocultural Perspectives in Education (3)**

Prerequisites: Doctoral standing or consent of instructor. Investigation of sociocultural theory with a focus on Educational applications. Topics include the social formation of mind, language as cultural tool, methodological issues in social science research, and dialogic inquiry as pedagogy.

**7644 Motivation Theory in Education (3)**

Prerequisites: Ed Psy 6111 and doctoral standing or consent of instructor. Focuses on the social and cognitive aspects of contemporary theories of motivation and examines supporting research. Participants will apply theory to settings of teaching and learning, training, and counseling relevant to their interests.

**7647 Teaching for Learning in the Univ. (3)**

Prerequisites: Graduate standing and consent of the instructor. An examination of current research in learning, motivation, and assessment as it pertains to teaching and learning in post-secondary settings. Designed to guide graduate students to promote active and meaningful learning in college classrooms to develop college students' critical thinking skills. Graduate students across the disciplines may enroll.

**Educational Research and Evaluation Methods (Ed Rem)**

**3720 Classroom Testing and Measurement (3)**

Basic measurement principles for the classroom teacher: test planning; construction and use of selection, supply, and performance type test items; item analysis for test improvement; methods of summarizing test scores; derived scores for interpretation of performance; development and use of norms in evaluation.

**3721 Interpretation of Educational Tests and Measurements (3)**

Prerequisite: Meet the university standard for proficiency in basic mathematical skills. A study of the principles of test theory with emphasis on standardized aptitude, behavioral, and achievement tests; the interpretation of individual and group performance; and application within classroom settings. Required of all majors in special Education.

**5730 Educational Statistics (3)**

Prerequisite: Meet the university standard for proficiency in basic mathematical skills. Statistical methods for advanced undergraduate and beginning graduate students: descriptive statistics, probability and sampling, and introduction to hypothesis testing and inferential statistics.

**6040 Educational Research for Teachers (3)**

Prerequisites: Tch Ed 6010 and Tch Ed 6020. This course provides the knowledge, skills, and practice for experienced practitioners to engage reflectively in a process of systematic study of their own practice with Educational systems and situated contexts. Educators will learn both analytic and practical tools to document multiple factors that can impact student learning and become more sophisticated consumers of research in order to engage in student advocacy and influence policy decision-making.

**6404 Seminar (1-10)**

Prerequisite: Consent of instructor. Educational research and evaluation methods seminar addressing special issues and topics not normally included in the regular statistics, research methods, evaluation, and measurement courses.

**6497 Problems (1-10)**

Prerequisites: At least one previous Ed Rem course and consent of course supervisor. Individual study on topics pertaining to Educational measurement, evaluation, statistics, and research design.

**6705 Evaluation of Data Analysis Programs (3)**

Prerequisite: Graduate admission and an introductory statistics course or consent of instructor. Principles and procedures for assessing the quality and effectiveness of data analysis computer programs and packages in Educational research. Review and evaluation of various computer programs and packages used in Educational research.

**6707 Classroom Measurement and Evaluation (3)**

Prerequisites: Graduate admission or consent of instructor. An introductory graduate course to classroom testing and evaluation. Topic areas include comparison of criterion- and norm-, validity and associated descriptive statistics; derived referenced theory and technique; classical test theory, reliability and transformed scores; preparation of instructional objectives for use in developing the classroom test; performance evaluations, and portfolio rubrics.

**6709 Educational and Psychological Measurement (3)**

Prerequisite: Graduate admission or consent of instructor. An introductory graduate course in testing and measurement theory: reliability, validity, and associated descriptive statistics; correlation and simple regression; derived and transformed scores; interpretation of test scores; measurement of aptitude, vocational interests, and personal-social adjustment.

**6710 Educational Research Methods and Design (3)**

Prerequisite: An introductory statistics course or Ed Rem 6707, or 6709, or consent of instructor. An introductory course in Educational research methodology: comparison of various types of qualitative and quantitative Educational research, threats to internal/external validity, sampling methods, data analysis, and components of research reports.

**6712 Survey Research Methods in Education (3)**

Prerequisite: An introductory statistics course and Ed Rem 6710 or consent of instructor. Same as Pol Sc 6406 and Sociol 5432. A course on the principles and procedures for conducting survey research. Topics include forming questions and scales, survey design, sampling methods, data preparation and analysis, and presentation of results.

**6714 Action Research in Education (3)**

Prerequisite: Ed Rem 6710 or consent of instructor. A course that engages the participants in systematic qualitative inquiry into their own practice: framing appropriate questions; gathering and interpreting data; analyzing culture, subjectivity and multiple perspectives; and reporting the results ("telling the story"). Readings will address the methods, politics, and ethics of action research. Enrollment requires access to a field setting.

**6716 PsychoEducational Assessment and Intervention I (3)**

Prerequisite: Graduate standing. Instruction in the administration, scoring, interpretation, and reporting of results of individual and group tests of psychomotor ability, academic achievement, and oral language skills. Special attention given to linking assessment to intervention.

**6718 PsychoEducational Assessment and Intervention II (3)**

Prerequisites: Grade of B or better in Ed Rem 6716 or Cns Ed 6050, and consent of instructor. An advanced assessment course in the administration and use of individual tests of cognitive abilities, diagnostic interviewing, adaptive behavior, and social-emotional behavior assessment with an emphasis on writing integrated reports with meaningful recommendations linking assessment to intervention.

**6720 Nonparametric Statistics in Education (3)**

Prerequisite: Ed Rem 6710 or consent of instructor. An advanced Educational research methods course in alternative analysis procedures to classical parametric statistics. Nonparametric methods are surveyed and their data requirements compared to their parametric counterparts. Educational research problems appropriate to or adaptable to these methods are studied.

**6730 Educational Program Evaluation (3)**

Prerequisites: Admission to doctoral Education and Ed Rem 6710 or consent of instructor. A course on the principles and procedures for assessing the quality and effectiveness of programs, projects, and materials related to planned interventions and system changes in Educational settings.

**6732 Advanced Theory and Practice in Educational Program Evaluation (3)**

Prerequisites: Ed Rem 6730 or consent of the instructor. Extension of the principles, attributes, and practices of program evaluation to contemporary problems and settings. Study will include the comparison of examples of the program evaluation process. Focus will be on adherence to the Program Evaluation Standards endorsed by leading professional research and evaluation associations.

**6735 Statistical Analysis for Education Research (3)**

Prerequisites: Graduate standing. Provides students with a fundamental and intermediate understanding of quantitative methods and their relationship to social science research in Education. This course is designed to provide statistical background to students who will pursue advanced degrees in Education. Students will conduct lab data analysis based on the topics covered in the class and learn how to generate specific research questions and conduct basic statistical analyses.

**6750 Advanced Research Design in Education (3)**

Prerequisites: Ed Rem 6735 or consent of instructor. This course is designed to provide students with a thorough background in the fundamental principles of research design in Education, and the knowledge and skills necessary to design and carry out studies appropriate to a wide variety of research problems. It focuses on tailoring the research design and methodology to most effectively address the problem or issue of concern, including qualitative, quantitative, and mixed-method designs. This is an experiential course designed around active discussion by students each week, and requires each student to develop a detailed research proposal for conducting a study to examine an appropriate Educational research problem.

**6990 Internship (1-10)**

Prerequisite: Consent of instructor. Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities.

**7711 Advanced Test Theory in Education (3)**

Prerequisite: Admission to doctoral Education and Ed Rem 6707, or Ed Rem 6709, or consent of instructor. An advanced course in measurement theory and practice: issues of reliability, validity, and item analysis for both criterion and norm referenced tests; introduction to factor analysis in the development and analysis of test structure and validity; introduction to item response theory for the improvement of Educational testing and

research.

**7771 Quantitative Research Methods I (3)**

Prerequisites: Admission to doctoral Education and Ed Rem 6710 or consent of instructor. An advanced Educational research methods course: hypothesis testing using factorial analysis of variance; analysis of covariance; and the general linear model.

**7772 Quantitative Research Methods II (3)**

Prerequisite: Ed Rem 7771 or consent of instructor. An advanced Educational research methods course; multivariate analysis of variance; canonical correlation, discriminant function analysis, factor analysis; cluster analysis, advanced topics in multiple linear regression; and associated research design issues.

**7773 Quantitative Research Methods III (3)**

Prerequisite: Ed Rem 7772. An advanced Educational research methods course using multiple linear regression models, path analysis, and structural equation modeling. Focus is on the theory, issues, and application of these advanced data analysis techniques.

**7781 Qualitative Methods in Educational Research I (3)**

Prerequisites: Admission to doctoral Education and Ed Rem 6710 or consent of instructor. An introductory qualitative research methods course in Education to develop skill in forming research questions, writing field notes, and collecting, organizing, and analyzing a variety of data. Philosophical and ethical issues in qualitative research are presented.

**7782 Qualitative Methods in Educational Research II (3)**

Prerequisite: Ed Rem 7781 or consent of instructor. An advanced qualitative Educational research methods course to address the issues of sampling strategies, observational and interview techniques, and data analysis . Requires access to a field setting to conduct a qualitative research study.

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#### Faculty

**Susan Catapano**, Associate Professor, Co-Chair  
Ed.D., Nova, Southeastern University

**Joseph L. Polman**, Associate Professor, Co-Chair  
Ph.D., Northwestern University

**Carl Hoagland**, Emerson Electric Company Professor in Technology and Learning  
Ed.D., University of Massachusetts

**William C. Kyle**, E. Desmond Lee Family Professor of Science Education  
Ph.D., University of Iowa

**Louis Lankford**, Des Lee Foundation Endowed Professor in Art Education  
Ph.D., Florida State University

**Robert Nordman**, E. Desmond Lee and Family Fund Endowed Professor  
M.M. Saint Louis Conservatory of Music

**Wendy Saul**, Dr. Allen B. and Mrs. Helen S. Shopmaker Endowed Professor for Education in collaboration with  
Springboard to Learning  
Ph.D., University Wisconsin-Madison

**James Shymansky**, E. Desmond Lee Family Professor of Science Education  
Ph.D., Florida State University

**Patricia Simmons**, E. Desmond Lee Professor in Life-Long Learning for the Sciences  
Ph.D., University of Iowa

**James Wilson**, E. Desmond Lee Endowed Professor in Experiential and Family Education  
Ph.D., Iowa State University

**Richard W. Burnett**, Professor Emeritus  
Ed.D., Indiana University

**Richard J. Friedlander**, Professor  
Ph.D., University of California-Los Angeles

**Charles Granger**, Professor  
Ph.D., University of Iowa

**Kathleen M. Haywood**, Associate Dean for Graduate Education, Professor  
Ph.D., University of Illinois-Urbana-Champaign

**Wallace Z. Ramsey**, Professor Emeritus  
Ed.D., University of Missouri-Columbia

**Helene J. Sherman**, Associate Dean, Professor  
Ed.D., University of Missouri-St. Louis

**Blanche M. Touhill**, Professor; Chancellor Emerita  
Ph.D., Saint Louis University

**Paul D. Travers**, Professor Emeritus  
Ed.D., George Peabody College

**Doris A. Trojcek**, Professor Emerita  
Ed.D., Indiana University

**Harold E. Turner**, Professor Emeritus  
Ed.D., George Peabody College

**Douglas Turpin**, Professor Emeritus in Music Education  
Ed.D., Washington University

**Judith Walker de Felix**, Professor, Associate Provost Academic Affairs; Dean of Graduate School

Ph.D., University of Florida

**Huber M. Walsh**, Professor Emeritus

Ed.D., University of California-Los Angeles

**Fred Willman**, Professor

Ph.D., University of North Dakota

**Jane Zeni**, Professor Emerita

Ed.D., University of Missouri-St. Louis

**Bruce A. Clark**, Associate Professor Emeritus

Ph.D., University of Illinois

**Kevin Fernlund**, Associate Professor

Ph.D., University of New Mexico

**Harold Harris**, Associate Professor

Ph.D., Michigan State University

**Thomas J. Loughrey**, Associate Professor

Ph.D., University of Iowa

**Virginia L. Navarro**, Associate Professor

Ph.D., Washington University

**Rebecca Rogers**, Associate Professor

Ph.D., University of Albany-SUNY

**Charles G. Smith**, Associate Professor; Athletic Director

Emeritus, M.S., Washington University

**Gwendolyn Turner**, Associate Professor

Ed.D. University of Arkansas

**Cathy Vatterott**, Associate Professor

Ph.D., Saint Louis University

**Gayle Wilkinson**, Associate Professor

Ed.D., University of Illinois

**George J. Yard**, Associate Professor Emeritus

Ph.D., Saint Louis University

**Karen Cumming**, Assistant Professor

Ed.D., University of Illinois at Urbana-Champaign

**Martille Elias**, Assistant Professor

Ph.D., University of Missouri-Columbia

**Gooyeon, Kim**, Assistant Professor

Ph.D., University of Georgia

**Jacquelyn A. Lewis-Harris**, Assistant Professor

Ph.D., Washington University

**Lori Newcomer**, Assistant Professor

Ph.D., University of Missouri-Columbia

**Nancy Robb Singer**, Assistant Professor

Ph.D., University of Missouri-St. Louis

**Alina Slapac**, Assistant Professor

Ed.D., University of Northern Iowa

**Kim Song**, Assistant Professor

Ed.D. Southern Illinois University-Edwardsville

**Laura Westhoff**, Assistant Professor

Ph.D., Washington University

**Sheridan Wigginton**, Assistant Professor

Ph.D., University of Missouri-Columbia

**Lynn Navin**, Lecturer: Director, University Child Development center

M.Ed., Michigan State University

**Debra Childs**, Lecturer

M.Ed., Wright State University

**Margaret Ann Niederberger**, Lecturer

M.Ed., Lindenwood University

**Tracy Reynolds**, Lecturer

M.A., Literacy Instruction, Michigan State University

**Diane Scollay**, Lecturer; Director, Gateway Writing Project

M.Ed., MA English, University of Missouri-St. Louis

**Carol Weber**, Lecturer

M.Ed., University of Missouri-St. Louis

### General Information

The faculty of the Division of Teaching and Learning has their offices on the 2nd and 3rd floors in Marillac Hall

and in the Mark Twain Building. Information about course offerings and related matters on all programs except physical education may be obtained in 369 Marillac Hall. The physical education offices are located in 234 Mark Twain Building.

The division coordinates programs leading to a B.S. in Education degree in:

**Early Childhood Education**  
**Elementary Education**  
**Physical Education**  
**Secondary Education**  
**Special Education**

And the B.E.S. degree in:

**Early Childhood Education**  
**Exercise Science Education**  
**Professional Education**

Programs leading to the M.Ed. in elementary education, secondary education, and special education also are coordinated in the Division of Teaching and Learning.

The **early childhood** undergraduate program is designed for students wishing to teach and direct programs for children from pre-kindergarten through grade three. Students electing this program will work directly with young children as a part of their professional courses.

The graduate program is designed to develop master-level educators through a common core of essential knowledge and experiences drawn from current research and practice in the field of early childhood education. Through this program, candidates are able to further their competencies as educators, directors, program planners, and curriculum developers in various early childhood settings. Students can complete additional course work to receive certification.

The **elementary education** program prepares students to teach in grades one through six. Students may also tailor a program leading to a middle school/junior high teaching certificate. A special feature of these programs is the many opportunities to work with children in schools as part of the professional course work.

The graduate program strives to develop and refine the concept of the "teacher as researcher" or the "teacher as reflective decision maker or problem solver." It is based on the premise that as professionals, teachers must understand both the products and findings of research and the underlying processes that influence their professional practice.

Students may choose a program leading to the M.Ed. in education, generalized or specialized elementary education or elementary education with Missouri certification in reading.

The **physical education** program coordinates work in physical education, which leads to a B.S. in education degree with certification to teach either PK-9 or K-12.

The elementary education and secondary education graduate programs provide courses for graduate students who choose physical education as their teaching field.

The **secondary education** program prepares students for teaching these subjects in secondary schools (grade 9-12): biology, chemistry, English, French, German, history, mathematics, music, physics, psychology, social studies, speech and Spanish. A special feature of these programs is the close interdisciplinary cooperation between the College of Education and other university departments.

Students may also choose to pursue the bachelor's degree in the College of Arts and Sciences plus certification, or the B.S. in education degree, which includes Missouri certification.

At the graduate level, the division provides a program leading to an M.Ed in secondary education with emphasis in: general secondary education; curriculum and instruction; secondary education with emphasis in reading; and secondary education and certification.

The **special education** program prepares students to teach learners with developmental disabilities, emotional/ behavioral disorders, learning disabilities, or in early childhood special Education settings. Missouri certification standards require a student teaching experience the area of special education.

At the graduate level, requisite course work for Missouri certification in special education is available, as is the M.Ed. Degree.

**Minor in Literacy**

A Minor in Literacy can be earned by successfully completing 18 hours of the following:

**Tch Ed 3315**, Literacy Learning and Instruction  
**Tch Ed 4391**, Teaching Reading in Secondary School Content Areas  
**Ech Ed 3332**, Literacy Learning and Instruction for the Young Child  
**Ele Ed 4989**, Elementary Education Professional Internship  
**Ele Ed 3330**, Literacy, Literature and the Learner  
**Ele Ed 3336**, Communication Arts Learning and Instruction  
**Ele Ed 3389**, Classroom Based Assessment to Guide Literacy Instruction  
**Ele Ed 4387**, Promoting the Language and Literacy Development of Children Living in Poverty

#### **Minor in Mathematics Education K-5**

A Minor in Mathematics Education can be earned by successfully completing 18 hours in the mathematics Education field. The following mathematics Education courses may be applied to Mathematics Education Minor.

**Ele Ed 4246**, Teaching Mathematics in the Elementary School  
**Ele Ed 4342**, Teaching Remedial Mathematics  
**Ele Ed 4346**, Advanced Methods in Elementary School Mathematics  
**Mid Ed 4246**, Teaching Mathematics in the Middle School  
**Ech Ed 4346**, The Acquisition of Mathematical Concepts  
**Ed Tec 5301**, Introduction to Computers and the Internet in Education

Mathematics courses (except 1030, 1150 & 2510) with consent of advisor.

**Note** The State Board of Education developed standards for renewable professional certificates, based on specific requirements for training and experience. Details regarding these standards are available in the office of undergraduate studies in Education.

#### **Minor in Urban Education P-5**

A minor in Urban Education P-5 can be earned by successfully completing the following 18 hours of Teacher Education, Early Childhood, and Elementary Education courses. Students must register for the special sections of these courses that are offered in urban settings to meet the requirements of this minor.

**Tch Ed 2311**, Foundations in Urban Education and Social Justice  
**Ele Ed 3330**, Literacy, Literature and the Learner  
**Ele Ed 3336**, Communication Arts Learning and Instruction  
**Ele Ed or Ech Ed 4320**, Classroom Management  
**Ele Ed 4989**, Elementary Education Professional Internship or  
**Ele Ed 4989**, Early Childhood Primary Internship  
**Tch Ed 4988**, Teaching and Learning in Urban Schools

**Note** The State Board of education developed standards for renewable professional certificates, based on specific requirements for training and experience. Details regarding these standards are available in the office of undergraduate studies in education.

#### **Minor in Teaching English to Speakers of Other Languages P-12**

A Minor in Teaching English to Speakers of Other Languages (TESOL) can be earned by successfully completing 18 hours of coursework that is identified to prepare the student to earn a TESOL teaching endorsement as an additional area of teaching certification by the Missouri Department of Elementary and Secondary Education.

**Tch Ed 3210**, General Linguistics in Teaching English to Speakers of Other Languages (TESOL)  
**Tch Ed 3211**, Basic Principles of Second and Foreign Language Acquisition  
**Tch Ed 3212**, Sociolinguistics and Communication in the Classroom  
**Tch Ed 3213**, Performance-based Assessment for TESOL  
**Tch Ed 3214**, Material Development and Methods for TESOL  
**Tch Ed 3215**, Field Experiences in TESOL

### **Bachelor of Educational Studies**

#### **Admission Requirements**

To be admitted to the Bachelor of Educational Studies Program an applicant must:

- Be regularly admitted to the College of Education.
- Have a UM and overall cumulative grade point average of 2.75 on a 4.0 scale.
- Have a 20 on the ACT or 800 on the SAT
- Have a 235 on each subtest of the CBASE.

- Complete English 1100 with a C or better.
- Complete Mathematics 1030 with a C or better
- Have at least 45 hours of college credit.
- Complete an application for the Bachelor of Educational Studies and secure appropriate signatures.

The B.E.S. is professional degree designed for individuals who wish to study Education as a scholarly discipline but who do not wish to prepare for the professional practice for Education in the K-12 schools of this state or nation. Three emphasis areas are available: early childhood education; and professional Education studies.

### General Education Requirements

Students entering college first time Fall 2002 should refer to the Introductory section of this bulletin for their General Education Requirements.

#### Communicative Skills (2 requirements)

- All students must complete a freshman English composition course with a grade of C or better.
- All students must complete English 3100, Advanced Expository Writing, or its equivalent, with a grade of C or better.

#### Mathematical Skills

- A grade of C or better in a college-credit mathematics course having at least intermediate algebra as a prerequisite, or
- A satisfactory score on the university's Mathematics Proficiency Test.

#### Breadth of Study (minimum 42 hours in the following three areas with at least three courses in each area)

- Humanities
- Natural sciences and mathematics
- Social sciences

#### Other Requirements

- American History or Government (course taken at the University of Missouri or at other colleges or universities in Missouri )

### Degree Requirements

#### Cultural Diversity Requirement (3 hours)

- **Ed Psy 3312/Tch Ed 3312**, The Psychology of Teaching and Learning (3 hours)
- **Commun 1040**, Introduction to Public Speaking (3 hours)
- **6 hours in Psychology or Educational Psychology numbered 3000 or higher**
- **Educ 2290**, Internship (6 hours)
- **Educ 2291**, Internship (6 hours)

At least one of the following:

- **Phy Ed 3282**, Physical Growth and Motor Development (3 hours)
- **Ed Psy/Tch Ed 2212**, ( 3 hours), Introduction to learners and Learning (3 hours), or equivalent
- **Psy 2272**, Adult Development and Aging (3 hours; same as Gerontology 2272)

#### Emphasis in Early Childhood

One of the following two:

- **Tch Ed 2211**, Introduction to American Schools (3 hours or equivalent)
- **Phy Ed 3282**, Physical Growth and Motor Development (3 hours)
- **Tch Ed 3313**, Introduction to Learners with Disabilities and Inclusive Education. (3 hours) or equivalent
- **Ech Ed 3303**, Curriculum and Practice Laboratory: Infant/Toddler (1 hour)
- **Ech Ed 3304**, Curriculum and Practice Laboratory: Preschool (1 hour)
- **Ech Ed 3312**, Introduction to Early Childhood Education (3 hours)
- **Ech Ed 3313**, Curriculum and Practice: Infant/Toddler (2 hours)
- **Ech Ed 3314**, Curriculum and Practice: Preschool (2 hours)
- **Ech Ed 4317**, Assessing Individual Needs for Early Childhood Instruction (3 hours)
- **Ech Ed 4331**, Language Acquisition and Development in Early Childhood (3 hours)
- **Ech Ed 3332**, Literacy (3 hours)
- **Ech Ed 4346**, The Acquisition of Mathematical Concepts (3 hours)

Total: 27 hours

Second Concentration: Electives to total 12 hours to be chosen from Ech Ed, Ele Ed, Spc Ed, Ed Tec, Ed Rem, or an area chosen in consultation with the adviser.

**Emphasis in Exercise Science**

All of the following:

- **Biol 1131**, Human Physiology and Anatomy I (4 hours)
- **Biol 1141**, Human Physiology and Anatomy II (4 hours)
- **Phy Ed 3204**, Special Topics in Physical Education (1-3 hours)
- **Phy Ed 3283**, Kinesiology (3 hours)
- **Phy Ed 3284**, Physiology of Human Exercise (3 hours)
- **Phy Ed 3285**, Sports Medicine (3 hours)
- **Phy Ed 3287**, Seminar in Exercise Science (3 hours)
- **Phy Ed 3261**, Physical Activity for the Exceptional Learner (2 hours)
- **Phy Ed 3275**, Psychological Aspects of Physical Education
- **Phy Ed 5330**, Prescribing Physical Activity (3 hours)
- **Phy Ed 5931**, Adult Exercise Leadership (3 hours)
- **Phy Ed 5380**, Nutrition for Human Performance (3 hours)

Total 27-29 hours

Second concentration: Electives to total 12 hours to be chosen from Bio, Chem, Phys, Psy, Geron, or an area chosen in consultation with the adviser.

**Emphasis in Professional Education Studies**

27 hours in one of the following, numbered 3000 or above: Ele Ed, Spc Ed, Sec Ed.

Second Concentration: Electives to total 12 hours to be chosen from an area not selected above or Ech Ed, Phy Ed, Tch Ed, Cns Ed, Ed Psy, Ed Rem or Ed Tec.

Candidates for the Bachelor of Educational Studies degree must achieve a cumulative grade point average of at least. 2.750, complete 24 of the last 30 hours in residence at UM-St. Louis, and be recommended by the faculty of the College of Education.

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#### **Undergraduate Studies**

##### **Bachelor of Science in Education: Early Childhood**

This program is designed for students wishing to teach and direct programs for children from birth through grade three.

##### **General Education Requirements:**

Students entering college first time, Fall 2002 should refer to the Introductory section of this Bulletin for their General Education Requirements.

##### **English and Communication (9 hours)**

**English 1100**, Composition

**English 3100 or 3120**, Advanced Expository Writing

##### **Communication: 3 hours**

##### **Mathematics (3 hours)**

**Math 1150**, Structure of Mathematical Systems I

##### **Biological Science: includes lab (5 hours)**

**Biol 1012/1013**

##### **Physical Science: includes lab (4 hours)**

##### **Humanities (8 hours)**

Three courses from two of the following fields: art, music, philosophy, and literature.

##### **Social Science (15 hours)**

**Psych 1003**, General Psychology

**Pol Sc 1100**, Introduction to American Politics, or equivalent

and one of the following history courses

**Hist 1001**, American Civilization

**Hist 1002**, American Civilization

and the following courses:

**Pol Sc 1850**, Global Ecology

**Sociol 1010**, Introduction to Sociology, or any anthropology course.

##### **Degree Requirements**

Students are required to take the general education requirements as indicated for early childhood education above.

##### **Level I: Exploring Education as a Profession**

**Tch Ed 2210**, Introduction to Teaching

**Tch Ed 2211**, Introduction to American Schools

**Tch Ed 2212**, Introduction to Learners and Learning

**Level II: Analyzing the Nature and Process of Education****Tch Ed 3310**, Introduction to Instructional Methods**Tch Ed 3312**, Psychology of Teaching and Learning**Tch Ed 3313**, Introduction to Learners with Disability and Inclusive Education**Tch Ed 3315**, Literacy Learning and Instruction**Phy Ed 3430**, Teaching Health in the Elementary School**Phy Ed 3282**, Physical Growth and Motor Development**Level III: Synthesizing Theory and Practice in Education****Ele Ed 3330**, Literacy, Literature and the Learner**Ele Ed 3336**, Communication Arts Learning and Instructionplus these **Early Childhood Education (Ech Ed )** courses:**Note: Ech Ed 4990 and Ech Ed 4991** must be taken during the same semester.**3303**, Curriculum and Practice Laboratory: Infant/Toddler**3304**, Curriculum and Practice Laboratory: Preschool**3312**, Introduction to Early Childhood Education**3313**, Curriculum and Practice: Infant/Toddler**3314**, Curriculum and Practice: Preschool**3332**, Literacy, Learning and Instruction for the Young Child**4317**, Assessing Individual Needs for Early Childhood**4346**, The Acquisition of Mathematical Concepts**4320**, Classroom Management**4989**, Early Childhood Primary Internship**4990**, Student Teaching in Early Childhood Education I (6 hrs)**4991**, Student Teaching in Early Childhood Education II (6 hrs)**Attention education majors** : Professional education courses must be completed with a grade point average of 2.50 and no grade lower than a C (2.0).**Total: A minimum of 120 hours****Graduate Studies****Master of Education: Elementary Education****Early Childhood Education Emphasis**

The M.Ed. program with an emphasis in early childhood education is designed to enable candidates to further their competencies as teachers or program administrators in public and private early childhood program. The program also prepares them for positions in community agencies that support families courses are as follows. Students must and young children. The minimum required and recommended complete the Required Core Competencies and Capstone Course as above.

**Career Outlook**

The field of early childhood education has experienced a marked increase in the demand for highly qualified and professional prepared educators. As research continues to focus on the crucial early years of development, the need for trained professionals in early care and education will continue to rise. Early childhood graduates at all degree levels are attractive candidates for employment in a variety of educational positions. The downward extension of ages of schooling opens employment opportunities in the public and private sector. Future expansions of opportunities in schools are tied to population growth, increased specialization of services, and reduction in ratios between professional staff and children served. Additional career opportunities exist for early childhood educators in specialized childcare, private family care, instruction and training, corporations, self-owned businesses, and family- focused public and private agencies. Qualified early childhood educators can and do make a powerful difference in the lives of families and children.

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## Division of Teaching and Learning - Early Childhood Education (Ech Ed)

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#### **Undergraduate Studies**

##### **Bachelor of Science in Education: Early Childhood**

This program is designed for students wishing to teach and direct programs for children from birth through grade three.

##### **General Education Requirements:**

Students entering college first time, Fall 2002 should refer to the Introductory section of this Bulletin for their General Education Requirements.

##### **English and Communication (9 hours)**

**English 1100**, Composition

**English 3100 or 3120**, Advanced Expository Writing

##### **Communication: 3 hours**

##### **Mathematics (3 hours)**

**Math 1150**, Structure of Mathematical Systems I

##### **Biological Science: includes lab (5 hours)**

**Biol 1012/1013**

##### **Physical Science: includes lab (4 hours)**

##### **Humanities (8 hours)**

Three courses from two of the following fields: art, music, philosophy, and literature.

##### **Social Science (15 hours)**

**Psych 1003**, General Psychology

**Pol Sc 1100**, Introduction to American Politics, or equivalent

and one of the following history courses

**Hist 1001**, American Civilization

**Hist 1002**, American Civilization

and the following courses:

**Pol Sc 1850**, Global Ecology

**Sociol 1010**, Introduction to Sociology, or any anthropology course.

##### **Degree Requirements**

Students are required to take the general education requirements as indicated for early childhood education above.

##### **Level I: Exploring Education as a Profession**

**Tch Ed 2210**, Introduction to Teaching

**Tch Ed 2211**, Introduction to American Schools

**Tch Ed 2212**, Introduction to Learners and Learning

**Level II: Analyzing the Nature and Process of Education****Tch Ed 3310**, Introduction to Instructional Methods**Tch Ed 3312**, Psychology of Teaching and Learning**Tch Ed 3313**, Introduction to Learners with Disability and Inclusive Education**Tch Ed 3315**, Literacy Learning and Instruction**Phy Ed 3430**, Teaching Health in the Elementary School**Phy Ed 3282**, Physical Growth and Motor Development**Level III: Synthesizing Theory and Practice in Education****Ele Ed 3330**, Literacy, Literature and the Learner**Ele Ed 3336**, Communication Arts Learning and Instructionplus these **Early Childhood Education (Ech Ed )** courses:**Note: Ech Ed 4990 and Ech Ed 4991** must be taken during the same semester.**3303**, Curriculum and Practice Laboratory: Infant/Toddler**3304**, Curriculum and Practice Laboratory: Preschool**3312**, Introduction to Early Childhood Education**3313**, Curriculum and Practice: Infant/Toddler**3314**, Curriculum and Practice: Preschool**3332**, Literacy, Learning and Instruction for the Young Child**4317**, Assessing Individual Needs for Early Childhood**4346**, The Acquisition of Mathematical Concepts**4320**, Classroom Management**4989**, Early Childhood Primary Internship**4990**, Student Teaching in Early Childhood Education I (6 hrs)**4991**, Student Teaching in Early Childhood Education II (6 hrs)**Attention education majors** : Professional education courses must be completed with a grade point average of 2.50 and no grade lower than a C (2.0).**Total: A minimum of 120 hours****Graduate Studies****Master of Education: Elementary Education****Early Childhood Education Emphasis**

The M.Ed. program with an emphasis in early childhood education is designed to enable candidates to further their competencies as teachers or program administrators in public and private early childhood program. The program also prepares them for positions in community agencies that support families courses are as follows. Students must and young children. The minimum required and recommended complete the Required Core Competencies and Capstone Course as above.

**Career Outlook**

The field of early childhood education has experienced a marked increase in the demand for highly qualified and professional prepared educators. As research continues to focus on the crucial early years of development, the need for trained professionals in early care and education will continue to rise. Early childhood graduates at all degree levels are attractive candidates for employment in a variety of educational positions. The downward extension of ages of schooling opens employment opportunities in the public and private sector. Future expansions of opportunities in schools are tied to population growth, increased specialization of services, and reduction in ratios between professional staff and children served. Additional career opportunities exist for early childhood educators in specialized childcare, private family care, instruction and training, corporations, self-owned businesses, and family- focused public and private agencies. Qualified early childhood educators can and do make a powerful difference in the lives of families and children.

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## Division of Teaching and Learning - Elementary Education (Ele Ed)

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### **Division of Teaching and Learning Home Page**

#### **Undergraduate Studies**

#### **Bachelor of Science in Education: Elementary Education**

The elementary education program prepares students to teach in grades one through six.

#### **General Education Requirements:**

##### **English and Communication (9 hours)**

**English 1100**, Freshman Composition

**English 3100**, Advanced Expository Writing

**\*Commun 1040**, Introduction to Public Speaking

##### **Mathematics (6 hours)**

**Math 1150**, Structure of Mathematical Systems I

**Math 2510**, Structure of Mathematical Systems II

##### **Biological Science: includes lab (5 hours)**

**\*General Biology 1012/1013**

##### **Physical Science: includes lab (4 hours)**

##### **Humanities (8 hours)**

**Three courses from two of the following fields: art, music, philosophy, and literature.**

##### **Social Science (18 hours)**

**Psych 1003**, General Psychology

**Pol Sc 1100**, Introduction to American Politics, or equivalent

And one of the following history courses:

**Hist 1001**, American Civilization

**Hist 1002**, American Civilization

**Pol Sc 1850**, Global Ecology

**Sociol 1010**, Introduction to Sociology, or any anthropology course.

**Econ 3052**, Microeconomics for the School Curriculum

##### **Related Area Requirements**

**Phy Ed 3430**, Teaching Health in the Elementary School

**Phy Ed 3465**, Physical Education Activities for the Elementary School

**Mus Ed 3770**, An Introduction for the Elementary School Teachers

**Ele Ed 2179**, Art Activities for Elementary School

#### **Program Requirements**

##### **Level I: Exploring Education as a Profession**

**Tch Ed 2210**, Introduction to Teaching

**Tch Ed 2211**, Introduction to American Schools  
**Tch Ed 2212**, Introduction to Learners and Learning

**Level II: Analyzing the Nature and Process of Education**

**Tch Ed 3310**, Introduction to Instructional Methods  
**Tch Ed 3312**, Psychology of Teaching and Learning  
**Tch Ed 3313**, Introduction to Learners with Disabilities and Inclusive Education  
**Tch Ed 3315**, Literacy Learning and Instruction

**Level III: Synthesizing Theory and Practice in Education**

**Ele Ed 3330**, Literacy, Literature and the Learner  
**Ele Ed 3336**, Communication Arts Learning and Instruction  
**Ele Ed 4246**, Teaching Mathematics in the Elementary School  
**Ele Ed 4320**, Classroom Management  
**Ele Ed 4253**, Teaching Social Studies in the Elementary School  
**Ele Ed 4341**, Teaching of Science in the Elementary School  
**Ele Ed 4989**, Elementary Education Professional Internship  
**Ele Ed 4990 and 4991**, Elementary School Student Teaching

Attention education majors: Professional education courses must be completed with a grade point average of 2.5 and no grade lower than a C.

Total: minimum of 120 hours.

**Middle School/Junior High (5-9)**

General education requirements are the same as for elementary education.

Postdegree certification students take Ed Fnd 4330, History of American Education, Ed Fnd 6421, Philosophy of Education, in lieu of Tch Ed 2211.

Changes in teacher certification requirements in this area are upcoming. To obtain the latest information on requirement changes or to find out whether the new requirements will apply to you, contact the office of undergraduate teacher education, 155 Marillac Hall.

**Total: 120 hours**

**Bachelor of Science in Education: Elementary Education (Middle School Certification)**

This area of specialization in elementary education prepares students to teach in grades 5-9.

**General Education Requirements**

General education requirements are the same as for elementary education.

**Related Area Requirement**

**Phy Ed 3430**, Teaching Health in the Elementary School

**Program Requirements**

**Level I: Exploring Education as a Profession**

**Tch Ed 2210**, Introduction to Teaching  
**Tch Ed 2211**, Introduction to American Schools  
**Tch Ed 2212**, Introduction to Learners and Learning

**Level II: Analyzing the Nature and Process of Education**

**Tch Ed 3310**, Introduction to Instructional Methods  
**Tch Ed 3312**, The Psychology of Teaching and Learning  
**Tch Ed 3313**, Introduction to Learners with Disabilities and Inclusive Education  
**Mid Ed 4315**, The Middle Level School  
**Mid Ed 4316**, Middle Level Curriculum and Instruction  
**Tch Ed 4391**, Teaching Reading in the Secondary School Content Area

**Level III: Synthesizing Theory and Practice in Education**

**Ele Ed 3389**, Classroom Based Assessment to Guide Literacy Instruction  
**Sec Ed 4880**, Writing for Teachers  
**Mid Ed 4317**, The Middle level Child  
**Mid Ed 4989**, Middle Level Internship

\*Note Mid Ed 4317 & Mid Ed 3289 should be taken concurrently.

**Special Methods**

Along with education courses in Level III, students must take the appropriate special methods course congruent with the certification area(s) listed below:

**Ele Ed 3336**, Communications Art Learning and Instruction  
**Mid Ed 4253**, Teaching of Social Studies in the Middle School  
**Mid Ed 4246**, Teaching Mathematics in the Middle School  
**Ele Ed 4341**, Teaching of Science in the Elementary School  
**Ele Ed 4990**, Student Teaching I  
**Ele Ed 4991**, Student Teaching II  
**Ele Ed 4990 and 4991** (Denoted as Middle School Sections)

#### **Area of Concentration for State Certification**

Middle School certification 5-9 requires a minimum of 21 hours for certification in the specific content of language arts, social studies, math, or science. Contact the office of undergraduate teacher education, 155 Marillac Hall, for specific content area courses.

**Attention education majors:** Professional education courses must be completed with a grade point average of 2.5 and no grade lower than a C is acceptable.

**Minimum of 120 hours.**

#### **Graduate Studies**

##### **Master of Education: Elementary Education**

##### **General Curricular Program or Specialization in Selected Curricular Areas**

The M.Ed. program in elementary education has a general program option, an emphasis in reading option, and an early childhood education option. All options consist of an initial required core of courses; a concentration area; an optional specialization area; a teacher research course; and a capstone or exit course. Areas of specialization are suggested below. A minimum of 33 hours is required for the degree; additional hours may be necessary for reading specialist certification.

##### **1) Required Core (9 hours)**

Students are required to complete the following courses within the first 15 hours of study.

**Tch Ed 6010**, Examining History, Community, and Social Justice in Education (3 hours)

**Tch Ed 6020**, Teacher Action, Advocacy & Leadership (3 hours)

**Tch Ed/Ed Psy 6030**, Instruction, Learning & Assessment (3 hours)

##### **2) Required Research Course (3 hours)**

**Ed Rem 6040**, Educational Research for Teachers (3 hours)

##### **3) Elementary Education Concentration (12-18 hours)**

A curriculum course (required): Ele Ed 6410 Current Research in the Elementary School Curriculum

Students should select at least 9 additional hours in one or more of the following areas: children's literature, early childhood, language arts, mathematics education, reading, science education, social studies education, special education, physical education, educational technology, curriculum development, improvement of instruction, or another area as identified in consultation with the faculty advisor.

##### **4) Specialization Areas (Optional; 6 hours)**

Students may follow one of the core competency courses with two additional courses to develop an area of specialization, such as:

Educational Psychology Option: Ed Psy/Tch Ed 6030 followed by either Ed Psy 6210 Life-Span: Individual and Family Development or Ed Psy/Ed Tec 6448 Technology Supported Inquiry Learning (3 hours each) and one of the following Ed Psy courses: 6210, Life-Span: Individual & Family Development; 6215, Psychology of Early Childhood Development; 6220, Psychology of the Elementary School Child; or 6225, The Psychology of Adolescence (3 hours each) Educational Technology Option: Tch Ed/Ed Psy 6030 followed by Ed Tec 5340 Selection and Utilization of Educational Multimedia and Ed Tec 6452 Educational Multimedia Design.

Other specialization areas are available and information is available in the Graduate Education and Teaching & Learning Division office.

##### **5) Capstone Course (3 hours)**

Students must enroll in the capstone course during their last semester.

**Tch Ed 6910** Teacher Action Research Capstone (3 hours)

##### **Emphasis in Reading**

The M.Ed. program with emphasis in reading (literacy) is designed to enable candidates to further their competencies as teachers of reading, writing, and the other communication arts. The program also prepares

them for positions as literacy coaches, reading specialists, curriculum specialist in communication arts and reading areas, consultants in areas of communication arts, and/or for further graduate study. The following program enables the student to earn a M.Ed. with an emphasis in Reading while fulfilling the Department of Elementary and Secondary Education's requirements for special reading certification in Missouri. Students must complete the first two levels of the Required Core, an educational psychology course, an approved educational research course, 18 hours of literacy courses, and an action research capstone course. The minimum required and recommended courses are as follows:

#### **Required Core (9 hours)**

**Tch Ed 6010**, Examining History, Community, and Social Justice in Education (3 hours)

**Tch Ed 6020**, Teacher Action, Advocacy & Leadership (3 hours)

**Tch Ed/Ed Psy 6030**, Instruction, Learning & Assessment (3 hours) or a graduate level course in child psychology or adolescent psychology may be substituted if needed for certification.

#### **Required Research Course – Evaluation of Abilities and Achievement (3 hours)**

**Ed Rem 6707, 6709, or 6716** Choose one course (3 hours) Dependent on student needs and interests.

#### **Reading Concentration (18 hours):**

##### **Required Courses**

**Ele Ed 6487**, Literacy Acquisition & Learning in a Diverse Society

**Ele Ed 6684**, Instructional Strategies for Teaching Reading

**Ele Ed 6686**, Analysis and Correction of Reading Disabilities

**Ele Ed 6493**, Reading Specialist Practicum I

**Ele Ed 6494**, Reading Specialist Practicum II

**And** at least one course from the literacy-related elective list or from the certification-related elective list below (min. 3 hrs):

#### **Capstone Course (3 hours)**

**Ele Ed 6482**, Problems and Research in Teaching Elementary School Reading

#### **Literacy Related Electives**

**Ele Ed 6630**, Communication Arts Instruction

**Ele Ed 6436**, Children's Literature I: Survey & Analysis

**Eng 6880/Tch Ed 6880**, Gateway Writing Project (6 hrs)

**Tch Ed 4391**, Teaching Reading in Secondary School Content Areas\*

**Ele Ed 6688**, Literacy Assessment to Guide Instruction

**Tch Ed 5312**, Differentiated Instruction

**To be recommended for Missouri Department of Elementary and Secondary Education special reading certification, teachers must have a valid Missouri teacher's certificate and two years of classroom teaching experience, and they must have had the following at either the undergraduate or graduate level: two additional courses in reading; language acquisition or development; classroom management techniques; counseling techniques (to include exceptional children and their families: child AND adolescent psychology; and testing, evaluation, and achievement. These certification requirements might be in addition to the courses listed in the program of study above. See your graduate advisor for information about these courses. M. Ed. Students needing any of the above can elect to take these courses at the graduate level where available and apply them to their concentration area.**

#### **Certification Related Electives**

**Ed Psy 6220**, Psychology of the Elementary School Child

**Ed Psy 6225**, The Psychology of Adolescence

**Cns Ed 3320**, Counseling Individuals with Special Needs

**Spc Ed 4315**, Speech and Language Problems Exceptional Children

**Ech Ed 4331**, Language acquisition and Development in Early Childhood

**Spc Ed 6320**, Advanced Studies in Classroom Management

**Ed Rem 6707**, Classroom Measurement & Evaluation

**Ed Rem 6709**, Educational and Psychological Testing

**\*Only one 4000 level course can be applied to the M.Ed.**

#### **Certification Options**

A combined M.Ed. and certification option exists. Options include elementary education (1-8), early childhood education (PK-3), and middle school/junior high (4-9). Students should consult certification advisers. Graduate credit will not be given for courses at the 1000 to 3000 levels and only one 4000 level course can be applied to an M.Ed. degree.

**Elementary Education-Emphasis in Early Childhood Education Concentration (12 hours)**

Required:

**Ech Ed 6412**, Foundations of Early Childhood Education (3)**Ech Ed 6413**, The Educational Role of Play (3)**Ech Ed 6415**, Organization and Development of Early Childhood Programs (3)**Ed Psy 6215**, Psychology of Early Childhood Development (3)**Elective hours (6 hours)****Total: 33 hours****Career Outlook**

Undergraduate and graduate degrees in elementary education are most directly applicable to teaching at the level appropriate to the program emphasis. Increasing specialization of teaching assignments and downward extensions of ages of schooling continue to open employment opportunities. As in the past, elementary education graduates at all degree levels also continue to be attractive candidates for employment in many positions, which require (or are well suited to) training in social and behavioral sciences. Positions in constant contact with and service to the general public such as sales, service, public relations, and general business are most common examples. Future expansions of opportunities in schools are tied to population growth, increased specialization of services, and reduction in ratios between professional staff and children served. Many currently employed teachers will retire within the next 5-10 years; consequently, a shortage of teachers is anticipated.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Division of Teaching and Learning - Physical Education (Phy Ed)

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#### **Undergraduate Studies**

##### **Bachelor of Science in Education: Physical Education**

This program prepares students to teach physical Education. Individuals can be certified for grades PK to 9 only or for grades PK to 12.

##### **Communication Skills (9 hours)**

**English 1100**, Freshman Composition

**English 3100**, Advanced Expository Writing or equivalent

**Commun, 1040** Introduction to Public Speaking

##### **General Education Requirements (42 hours required):**

Students entering college first time, Fall 2002 should refer to the Introductory section of this Bulletin for their General Education Requirements.

##### **Humanities (8 hours)**

Three courses from two curricular designations in the humanities (Symbol H).

##### **Social Science (9 hours)**

One course in American history

One course in American government

**Psych 1003**, General Psychology

##### **Natural Science (8 hours)**

One course in a physical or earth science

One course in a biological science.

At least **one** of these courses must have a **laboratory component**.

##### **Mathematics (3 hours)**

One college-level mathematics course

**Note:** All of the courses above must be a minimum of two semester hours.

**Electives** 11-14 hours

##### **PK-9 Emphasis**

##### **Level I: Exploring Education as a Profession**

The following physical Education (Phy Ed) courses and professional Education courses are required (16 hrs) and must be completed before advancement to Level II:

**Phy Ed 3280**, Human Anatomy and Physiology (5 hrs)

**Phy Ed 3277**, Historical/Philosophical Foundations of Physical Education and Sport (2 hrs)

**Tch Ed 2210**, Introduction to Teaching (3 hrs)

**Tch Ed 2211**, Introduction to Schools (3 hrs)

**Tch Ed 2212**, Introduction to Learners (3 hrs)

**Level II: Analyzing the Nature and Process of Education**

The following physical Education (Phy Ed) courses and professional Education courses are required (27 hrs) before enrollment in any Level III courses:

**Phy Ed 3267**, Performance Analysis in Physical Education (3 hrs)

**Phy Ed 3275**, Psychological Aspects of Physical Education (3 hrs)

**Phy Ed 3282**, Physical Growth and Motor Development (3 hrs)

**Phy Ed 3283**, Kinesiology (3 hrs)

**Phy Ed 3284**, Physiology of Human Exercise (3 hrs)

**Phy Ed 3285**, Sports Medicine (3 hrs)

**Tch Ed 3312**, Psychology of Teaching and Learning (3 hrs)

**Tch Ed 3313**, Introduction to Learners with Disabilities and Inclusive Education (3 hrs)

**Tch Ed 4391**, Teaching Reading in Secondary School Content Areas (3 hrs)

The following physical Education courses are required (9 hrs) and can be taken concurrently with Level III courses:

**Phy Ed 3434**, Teaching of Wellness and Health Related Fitness (4 hrs)

**Phy Ed 3261**, Physical Activity for the Exceptional Learner (2 hrs)

**Phy Ed 3468**, The Curriculum and Methods of Teaching Physical Education (3 hrs)

**Level III: Synthesizing Theory and Practice in Education**

The following physical Education (Phy Ed) courses are required (26 hrs):

**Phy Ed 3422**, Teaching of Skills: Grade PK-4 (4 hrs)

**Phy Ed 3423**, Teaching of Skills: Grades 5-9 (4 hrs)

**Phy Ed 3425**, Teaching of Skills: Movement, Dance and Rhythms (3 hrs)

**Phy Ed 4989**, Physical Education Professional Internship (3 hrs)

**Phy Ed 4990**, Student Teaching in Physical Education PK-5 (6 hrs)

**Phy Ed 4991**, Student Teaching in Physical Education 5-9 (6 hrs)

Total: 126 hours

**Attention Education majors:** Professional Education courses must be completed with a grade point average of 2.5 and no grade lower than a C.

**Grades K through 12 Emphasis**

General education requirements are the same as for K-9

**Level I: Exploring Education as a Profession**

The following physical Education (Phy Ed) courses and professional Education courses are required (16 hrs) and must be completed before advancement to Level II:

**Phy Ed 3280**, Human Anatomy and Physiology (5 hrs)

**Phy Ed 3277**, Historical/Philosophical Foundations of Physical Education and Sport (2 hrs)

**Tch Ed 2210**, Introduction to Teaching (3 hrs)

**Tch Ed 2211**, Introduction to Schools (3 hrs)

**Tch Ed 2212**, Introduction to Learners (3 hrs)

**Level II: Analyzing the Nature and Process of Education**

The following physical Education (Phy Ed) courses and Professional Education courses are required (29 hrs) Before enrollment in any Level III courses:

**Phy Ed 3267**, Performance Analysis in Physical Education (3 hrs)

**Phy Ed 3275**, Psychological Aspects of Physical Education (3 hrs)

**Phy Ed 3276**, Sociological Foundations of Physical Education and Sport (2 hrs)

**Phy Ed 3282**, Physical Growth and Motor Development (3 hrs)

**Phy Ed 3283**, Kinesiology (3 hrs)

**Phy Ed 3284**, Physiology of Human Exercise (3 hrs)

**Phy Ed 3285**, Sports Medicine (3 hrs)

**Tch Ed 3312**, Psychology of Teaching and Learning (3 hrs)

**Tch Ed 3313**, Introduction to Learners with Disabilities and Inclusive Education (3 hrs)

**Tch Ed 4391**, Teaching Reading in Secondary School Content Areas (3 hrs)

The following physical Education courses are required (9 hrs) and can be taken concurrently with Level III courses:

**Phy Ed 3434**, Teaching of Wellness and Health Related Fitness (4 hrs)

**Phy Ed 3261**, Physical Activity for the Exceptional Learner (2 hrs)

**Phy Ed 3468**, The Curriculum and Methods of Teaching Physical Education (3 hrs)

**Level III: Synthesizing Theory and Practice in Education**

The following physical Education (Phy Ed) courses are Required (30 hrs):

**Phy Ed 3422**, Teaching of Skills: Grades PK-4 (4 hrs)

**Phy Ed 3423**, Teaching of Skills: Grades 5-9 (4 hrs)

**Phy Ed 3424**, Teaching of Skills Grades 9-12 (4 hrs)

**Phy Ed 3425**, Teaching of Skills: Movement, Dance And Rhythms (3 hrs)

**Phy Ed 4989**, Physical Education Professional Internship (3 hrs)

Two of the following three:

**Phy Ed 4990**, Student Teaching in Physical Education PK-5 (6 hrs)

**Phy Ed 4991**, Student Teaching in Physical Education 5-9 (6 hrs)

**Phy Ed 4992**, Student Teaching in Physical Education 9-12 (6 hrs)

**Minimum: 132 hours**

**Attention Education majors:** Professional Education courses must be completed with a grade point average of 2.5 and no grade lower than a C.

**Athletic Coaching Minor**

An athletic coaching minor is available (minimum of 20 hours). The following courses are required:

**Phy Ed 3283**, Kinesiology

**Phy Ed 3424**, Teaching of Skills: Grades 9-12

**Phy Ed 5312**, Management of Sports Programs

**Phy Ed 5330**, Prescribing Physical Activity

All courses apply to, but do not complete, teaching certification in Missouri.

**Health Certification**

For those with a valid teaching certificate in physical, courses are available to obtain an additional endorsement in health Education.

**Master of Education: Elementary or Secondary Education with Physical Education as Teaching Field**

A significant number of graduate students choose physical Education as the teaching field within one of the master of Education degree options. Most are currently employed as teachers of health and/or physical Education. Certification requirements in Missouri mandate the completion of a master's degree to professionalize the certificate. Therefore, a full complement of graduate courses relating to teaching in physical Education is available to meet this need. For many who need to pursue teacher certification in physical Education while pursuing the master's degree, most course work needed to meet state certification requirements can be taken in the master's program. For those employed outside Education, an emphasis in exercise science is also available, providing a foundation of course work designed to prepare a person in this area. Specific information is available regarding each of these degree programs. Please consult with your graduate adviser to discuss the specific options and requirements.

**Career Outlook**

The employment outlook for physical Educators in the schools continues to be positive, especially in the elementary and middle school levels. Recent placement years have yielded full employment opportunities to UM-St. Louis graduates. Rising school enrollments and the expected retirement of a significant portion of currently employed teachers signal optimistic outlooks for the next few years. In addition to elementary, middle school, and high school physical Education teaching, more limited opportunities exist in athletic training, dance, research, sports management, and exercise leadership fields serving persons of all age categories.

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# BULLETIN 2007 2008

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#### **Undergraduate Studies**

##### **Bachelor of Science in Education: Secondary Education**

Two secondary Education programs prepare students to teach in grades 9 through 12: Bachelor of Science in Secondary Education through the College of Education (B.S.Ed.) OR Bachelor of Arts in a department of the College of Arts and Sciences (B.A.) with certification in Secondary Education

##### **General Education Requirements**

Students entering college first time, Fall 2002 should refer to the Introductory section of this bulletin for their General Education Requirements.

B.S.Ed. degree candidates must complete the following general Education courses required by the College of Education and the Missouri Department of Elementary and Secondary Education.

##### **Humanities**

**Three** courses required from the following fields: music (excluding applied music), art, foreign language, Western and non-Western cultures, philosophy, literature, classical studies, and theater and drama.

##### **Communication Skills**

At least **two** courses in **English composition** and **one** in **oral communications**.

##### **Social Studies**

**One course in each** --American history and American government, **and one** additional course selected from the following areas: geography, sociology, economics, anthropology, and psychology.

**Psych 1003**, General Psychology (required).

##### **Natural Science**

**One** course in a physical or earth science; **one** course in a biological science. At least **one** of these courses must have a **laboratory component**.

##### **Mathematics**

**One** college-level mathematics course.

**Note** All of the courses above must be a minimum of 2 semester hours.

##### **Program Requirements**

B.S.Ed. and B.A. certification candidates must complete the following courses:

##### **Level I: Exploring Education as a Profession**

**Tch Ed 2210**, Introduction to Teaching

**Tch Ed 2211**, Introduction to Schools

**Tch Ed 2212**, Introduction to Learners

##### **Level II: Analyzing the Nature and Process of Education**

**Tch Ed 3310**, Introduction to Instructional Methods  
**Tch Ed 3312**, Psychology of Teaching and Learning  
**Tch Ed 3313**, Introduction to Learners with Disabilities and Inclusive Education  
**Tch Ed 4391**, Teaching Reading in Secondary School Content Areas

**Level III: Synthesizing Theory and Practice in Education**

**Sec Ed 4xxx**, Curriculum and Methods of Teaching (specific subject area)  
**Sec Ed 4989**, Secondary Education Professional Internship  
**Sec Ed 4990**, Secondary School Student Teaching  
**Sec Ed 4xxx**, Student Teaching Intern Seminar (Taken concurrently with student teaching)

Note: **Sec Ed 4989** Secondary Education Professional Internship and **Sec Ed 4xxx**, Curriculum and Methods of Teaching (specific subject area) must be taken in the same semester and in the semester immediately preceding **Sec Ed 4990**, Secondary School Student Teaching

**Attention Education majors:** Professional Education courses must be completed with a grade point average of 2.5 and no grade lower than a C or better are required in all courses in the teaching field.

**Emphasis Areas:** B.S.Ed. candidates must complete 30 to 50 hours of specific subject requirements in one of the following fields: English, foreign language (French, German, or Spanish), mathematics, music, unified science (biology, chemistry, or physics endorsement), or social studies. For specific subject requirements see the appropriate department listing in the Arts and Science section of this bulletin: Physics requirements are listed below:

**Note:** Music Education students take the following courses, Sec Ed 4993, Student Teaching in Music Education K-6, and Sec Ed 4994, Student Teaching in Music Education 7-12. These two courses must be taken during the same semester.

Art Education Students take the following courses:

Sec Ed 4996, Student Teaching in Elementary Art and Sec Ed 4997, Student Teaching in Secondary Art

**Social Studies** certification students must complete a major or an equivalent in hours in one of the following disciplines: anthropology, economics, geography, history, political science, psychology, or sociology. They must meet these minimum social science requirements: American history, 12 hours including History/Sec Ed 4013; European or world history, 9 hours including History/Sec Ed 4014; United States and/or state government, 6 hours including Political Science 3090/Sec Ed 3209; behavioral science, 6 hours; economics, 3 hours; geography, 3 hours; and 2 hours of elective social studies credit. For emphasis area advising, see the History Department.

**B.S. degree in Secondary Education with an Emphasis in Science-Physics**

All candidates must enroll in a program that includes levels I, II, and III course work in the College of Education. In addition, students must complete the following Science Core Courses and the courses listed under Physics Endorsement:

**Science core courses:**

**Philosophy 3380**, Philosophy of Science

**Biology**

**1111**, Introductory Chemistry I

**1112**, Introductory Chemistry II

**1811**, Introductory Biology I

**1821**, Introductory Biology II

**Geol 1001**, General Geology

**Atm Sc 1001**, Elementary Meteorology

**Biol 1202**, Environmental Biology or another environmental science

**Physics**

**1011**, Physics: Mechanics and Heat

**1012**, Physics: Electricity, Magnetism, and Optics

**Physics Endorsement**

**Physics**

**3200**, Survey of Theoretical Physics

**3221**, Mechanics  
**3223**, Electricity and Magnetism  
**3231**, Introduction to Modern Physics  
**4310**, Modern Electronics  
**4311**, Advanced Physics Laboratory I  
**4802, or Sec Ed 3240**, Curriculum and Methods of Teaching Physical Science  
**4837**, Chemistry/Physics Teaching Intern Seminar

### Graduate Studies

The M.Ed. program in secondary Education has general program, curriculum and instruction, or reading options. All consist of an initial required core of courses; an opportunity to develop an area of specialization; an opportunity for study in the teaching field; and a capstone or exit course. Areas of specialization are suggested below. A minimum of 33 hours is required for the general program, curriculum and instruction, and adult Education and reading options.

#### Master of Education: Secondary Education

The M.Ed. general program is appropriate for secondary teachers and department chairpersons. Programs must be planned with the academic adviser and meet the approval of the advisor, College, and Graduate School.

##### 1) Required Core (9 hours)

Students are required to complete the following courses within the first 15 hours of study.

**Tch Ed 6010**, Examining History, Community, and Social Justice in Education (3 hours)

**Tch Ed 6020**, Teacher Action, Advocacy & Leadership (3 hours)

**Tch Ed/Ed Psy 6030**, Instruction, learning & Assessment (3 hours)

##### 2) Required Research Course (3 hours)

**Ed Rem 6040**, Educational Research for Teachers (3 hours)

##### 3) Teaching Field Concentration (12-18 hours)

A curriculum course (required): Sec Ed 6415, The Secondary School Curriculum. Students should select at least 9 hours in their teaching field (mathematics; chemistry; biology; physics; social studies; English; physical Education; speech and theatre; Educational technology or other) or in secondary Education, as identified in consultation with the faculty advisor.

##### 4) Specialization Areas (Optional: 6 hours)

Students may follow one of the core competency courses with two additional courses to develop an area of specialization, such as:

Educational Technology Option: Tch Ed/EdPsy 6030 followed by Ed Tec 5340, Selection and Utilization of Educational Multimedia and Ed Tec 6452, Educational Multimedia Design

Educational Psychology Option, Tch Ed/Ed Psy 6030 followed by either Ed Psy 6210, Life-Span: Individual and Family Development or Ed Psy/Ed Tec 6448, Technology Supported Inquiry Learning (3 hours each) and one of the following Ed Psy courses: 6210, Life-Span: Individual & Family Development; 6215, Psychology of Early Childhood Development; 6220, Psychology of the Elementary School Child; or 6225, The Psychology of Adolescence (3 hours each) Teaching of Writing Option, Tch Ed/Ed Psy 6030 followed by Tch Ed 5850, Topics in the Teaching of Writing and Tch Ed 6890, Seminar in Professional Writing for Teachers; or Tch Ed 6880, Gateway Writing Project (6).

Other specialization areas are available and information is available in the Graduate Education and Teaching & Learning Division offices.

##### 5) Capstone Course (3 hours)

Students must enroll in the capstone course during their last semester.

**Tch Ed 6910**, Teacher Action Research Capstone (3 hours)

#### Master of Education: Secondary Education with Emphasis in Curriculum and Instruction

The M.Ed. with an emphasis in curriculum and instruction is designed for graduate students who wish to further their competencies as teacher or curriculum specialist or instructional leaders.

##### 1) Required Core requirements (9 hours)

Students are required to complete the following courses within the first 15 hours of study.

**Tch Ed 6010**, Examining History, Community, and Social Justice in Education (3 hours)

**Tch Ed 6020**, Teacher Action, Advocacy & Leadership (3 hours)

**Tch Ed/Ed Psy 6030**, Instruction, learning & Assessment (3 hours)

**2) Required Research Course (3 hours)****Ed Rem 6040**, Educational Research for Teachers (3 hours)**3) Curriculum and Instruction Core (9 hours)****Sec Ed 6415**, The Secondary School Curriculum**Sec Ed 6420**, The Improvement of Secondary School Teaching**Sec Ed 6416**, Curriculum Construction for Secondary Schools**4) Specialization Areas (Optional: 6 hours)**

Same as above

**5) Electives (3-9 hours)**

Students can elect hours in their teaching field or other areas of secondary Education. The following are suggested:

**Ed Fnd 6421**, Philosophy of Education**Ed Fnd 6422**, Analysis of Educational Issues**Ed Fnd, 6435**, History of Western Education**6) Capstone Course (3 hours)**

Students must enroll in the capstone course during their last semester.

**Tch Ed 6910**, Teacher Action Research Capstone (3 hours)**Master of Education: Secondary Education with Emphasis in Adult Education**

The M.Ed. with an emphasis in middle level Education is designed for graduate students who would like to further their competencies as a middle level Educator.

**1) Required Core Requirements (9 hours)**

Students are required to complete the following courses within the first 15 hours of study.

**Tch Ed 6010**, Examining History, Community and Social Justice in Education (3 hours)**Tch Ed 6020**, Teacher Action, Advocacy & Leadership (3 hours)**Tch Ed/Ed Psy 6030**, Instruction, Learning & Assessment (3 hours)**2) Research Course (3 hours)****Ed Rem 6040**, Educational Research for Teachers (3 hours)**3) Middle Level Education Core (12 hours)**

Students should select a curriculum course and at least 9 hours from the following:

**Ed Adm 6303**, Middle School Administration**Ed Adm 6315**, Middle School Educational Philosophy**Ed Adm 6317**, Supervision and the Middle School Child**Ed Psy 6225**, The Psychology of Adolescence**Mid Ed 5220**, Science for the Middle School Teacher (5 hours)**4) Specialization Areas (Optional: 6 hours)**

Same as above

**5) Electives (3-6 hours)****6) Capstone Course (3 hours)**

Students must enroll in the capstone course during their last semester.

**Tch Ed 6910**, Teacher Action Research Capstone (3 hours)**Master of Education: Secondary Education with Emphasis in Reading**

The M.Ed. program with emphasis in reading (literacy) is designed to enable candidates to further their competencies as teachers of reading, writing and other communication arts. The program also prepares them for positions as literacy coaches, reading specialists, curriculum specialist in communication arts and reading areas, consultants in areas of communication arts, and/or for further graduate study. The following program enables the student to earn a M.Ed. with an emphasis in Reading while fulfilling the Department of Elementary and Secondary Education's requirements for special reading certification in Missouri. A course in reading in the content area is required for secondary certification. If this has not been taken as an undergraduate, it must be selected as an elective in the program for a Masters in Secondary Education with a Reading Emphasis. The minimum required and recommended courses are as follows:

**1) Required Core (9 hours)****Tch Ed 6010**, Examining History, Community, and Social Justice in Education (3 hours)**Tch Ed 6020**, Teacher Action, Advocacy & Leadership (3 hours)**Tch Ed/Ed Psy 6030**, Instruction, Learning & Assessment (3 hours) or a graduate level course in child psychology and/or adolescent psychology may be substituted if needed for certification.

**2) Required Research Course – Evaluation of Abilities and Achievement (3 hours)**

Ed Rem 6707, 6709, or 6716, Choose one course (3 hours)

**3) Reading Concentration (18 hours): Required Courses**

Sec Ed 6487, Literacy Acquisition & Learning in a Diverse Society

Sec Ed 6684, Instructional Strategies for Teaching Reading

Sec Ed 6686, Analysis and Correction of Reading Disabilities

Sec Ed 6493, Reading Specialist Practicum I

Sec Ed 6494, Reading Specialist Practicum II

And at least one course from the literacy-related elective list or from the certification-related elective list below (min. 3 hrs):

**4) Capstone Course (3 hours)**

Sec Ed 6482, Problems and Research in Teaching Secondary School Reading

**Literacy Related Electives Include:**

Ele Ed 6630, Communication Arts Instruction

Ele Ed 6436, Children's Literature I: Survey & Analysis

Eng 6880/Tch Ed 6880, Gateway Writing Project

Tch Ed 4391, Teaching Reading in Secondary School Content Areas\*

Ele Ed 6688, Literacy Assessment to Guide Instruction

One course needed to complete certification (See note below)

To be recommended for Missouri Department of Elementary and Secondary Education special reading certification, teachers must have a valid Missouri teacher's certificate and two years of classroom teaching experience, and they must have had the following at either the undergraduate or graduate level: two additional courses in reading; language acquisition or development; classroom management techniques; counseling techniques (to include exceptional children and their families: child AND adolescent psychology; and testing, evaluation, and achievement. These certification requirements might be in addition to the courses listed in the program of study above. See your graduate advisor for information about these courses. M.Ed. Students needing any of the above can elect to take these courses at the graduate level where available and apply them to their concentration area.

**Certification Related Electives Include**

Ed Psy 6220, Psychology of the Elementary School Child

Ed Psy 6225, The Psychology of Adolescence

Cns Ed 3320, Counseling Individuals with Special Needs

Spc Ed 4315, Speech and Language Problems Exceptional Children

Ech Ed 4331, Language Acquisition and Development in Early Childhood

Spc Ed 6320, Advanced Studies in Classroom Management

Ed Rem 6707, Classroom Measurement & Evaluation

Ed Rem 6709, Educational and Psychological Testing

\*Note: Only one 4000 level course can be applied to the M.Ed.

**Master of Education: Secondary Education and Certification**

Those holding a baccalaureate degree or major in the teaching field who would like to pursue initial teacher preparation and a Master's degree, can take the following program. The exact number of hours depends upon hours needed by the student to meet certification requirements in the chosen teaching field.

**1) Required Teacher Certification Courses at the Graduate Level (17 hours)**

Tch Ed 5311, Foundations in Education (4)

Ed Psy 6109, Learning and Development in Educational Environments

Tch Ed 5310, Instructional Design (3)

Tch Ed 5312, Differentiated Instruction (4)

**2) Required Teacher Certification Courses at the Undergraduate Level (19-21 hours)**

These courses are not applicable to the Master's degree

Sec Ed 4xxx, Curriculum and Methods of Teaching ---(3)

Sec Ed 4989, Secondary Education Professional Internship (3)

Sec Ed 4990, Secondary School Student Teaching (12)

Sec Ed 4xxx, Student teaching Seminar (1-3)

**3) Teaching Field Courses (6 hours minimum)**

Selected in consultation with advisor. Should be taken at the graduate level when possible. Only graduate credit can be applied to the Master's degree

**4) Master of Education Required Core Courses (9 hours)**

Students should complete initial teacher certification courses before enrolling in the following:

**Tch Ed 6010**, Examining History, Community and Social Justice in Education (3 hours)

**Tch Ed 6020**, Teacher Action, Advocacy & Leadership

**Tch Ed/Ed Psy 6030**, Instruction, Learning & Assessment (3 hours)

**5) Required Research Course (3 hours)**

**Ed Rem 6040**, Educational Research for Teachers (3 hours)

**6) Capstone Course (3 hours)**

Students must enroll in the capstone course during their last semester.

**Tch Ed 6910**, Teacher Research Capstone (3 hours)

- Check with your advisor regarding limits on the number of 4000 level courses that can be applied to the Master's degree.

Total minimum 33 graduate hours

**Graduate Certificate in the Teaching of Writing, Gateway Writing Project**

Jointly housed in the Division of Teaching and Learning and the Department of English, this Graduate Certificate prepares teachers at all levels (K-12, college, adult) to improve their students' performance in writing. The program also emphasizes using writing as a means to promote learning in all content areas. All courses provide opportunities for teachers to write, revise, share feedback, and reflect on their own writing development. Based on the National Writing Project's core belief that teachers of writing must themselves be writers, the Graduate Certificate in the Teaching of Writing brings together sound pedagogy, composition theory, and writing practice.

The Certificate is an 18-hour program through the Gateway Writing Project (GWP); it may also be coordinated with other graduate programs. Certificate courses may be applicable to the M.A. in English with emphasis in composition or to various M.Ed. programs. The GWP Certificate is especially appropriate for post-master's candidates who wish to pursue a specialization in teaching writing. The Graduate Certificate in the Teaching of Writing requires a 12 semester-hour core of courses developed by the Gateway Writing Project: The GWP invitational institute (6 hrs), a designated "topics" course (3 hrs.), and an exit course (3 hrs.). The Certificate requires a minimum of 12 semester hours at the 5000 or 6000 [400] level or above. Electives (6 semester hours) may be chosen from approved offerings in English or Education.

**Admission:**

Applicants must be admitted to Graduate School and be selected by the faculty admissions committee for the Gateway Writing Project's Certificate in the Teaching of Writing. The committee will review candidates on the basis of an interview, an application essay, and supporting documentation. Criteria include experience teaching writing at any level and academic record, especially in writing and the teaching of writing.

**Prerequisites:**

**English/Sec Ed 4880**, "Writing for Teachers" or an equivalent course in teaching writing.

Coursework or competency in basic computer application.

**Required Core Courses (12 semester hours)**

**English 4850(Tch Ed 5850)**, Topics in the Teaching of Writing (designated topics, 3 sem. hrs.)

**English 6880/Tch Ed 6880**, Gateway Writing Project (6 sem. hrs.)

**Tch Ed 6890**, Seminar in Professional Writing for Teachers (exit course, 3 sem. hrs)

**Electives (6 semester hours)**

Electives may be chosen from other Gateway Writing Project offerings or from courses offered by the appropriate academic department with advisor's approval. These electives must include at least one more 5000-6000 level course.

**Suggested electives applicable to an MA in English with writing emphasis:**

**English 5840**, Theories of Writing

**English 5860**, Writing/Reading Theory

**English 5860**, Composition Research

**English 5890**, Teaching College Writing

**English 5800**, Modern Linguistics

**Suggested electives applicable to an M.Ed. in Elementary or Secondary Education**

**EI Ed 6387**, Literacy Acquisition and Learning for Urban Students

**Sec Ed 6430**, Problems in Teaching English in Sec. School

**EI Ed 6432**, Problems & Research in Language Arts

**EI Ed 6482**, Problems & Research in Elementary Reading

**Ed Rem 6714, Action Research in Education**

Courses in adult and higher Education may also be appropriate. For complete information, see ***The GatewayWriting Project's Graduate Certificate in Teaching Writing***, available from the English Department, from the Division of Teaching and Learning, and from the GWP Director via Continuing Education & Outreach.

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#### **Undergraduate Studies**

##### **Bachelor of Science in Education: Special Education**

##### **General Education requirements** (46 hours required):

Students entering college first time, Fall 2002 should refer to the Introductory section of this bulletin for their General Education Requirements.

##### **English and Communication** (9 hours)

**English 1100**, Composition

**Commun 1030 or Commun 1040**

**English 3100**

**Math** (6 hours) **1150**, Structure of Mathematical Systems I

**Science** (8-9 hours)

**Biology** (Laboratory)

**Physical Science** (Laboratory)

**Humanities** (8 hours)

**Music 3770**, Introduction to Music for the Elementary School Teacher (Recommended) plus two courses from art, music, philosophy, or literature

**Social Science** (18 hours)

**Psych 1003**, General Psychology

**Hist 1001**, American Civilization, **or Hist 1002**, American Civilization

**Pol Sc 1100**, Introduction to American Politics

**Econ 3052**, Microeconomics for the School Curriculum

**Sociol 1010**, Introduction to Sociology, **or Any Anthropology course**

**Geog 1001 or 1002**

##### **Program Requirements (80 hours)**

##### **Related Area Requirements** (6 hours)

**Phy Ed 3430**, Elements of Health Education

**Phy Ed 3261**, Physical Activity of the Exceptional Learner

##### **Program Requirements** (24 hours)

##### **Level I: Exploring Education as a Profession**

**Tch Ed 2210**, Introduction to Teaching

**Tch Ed 2211**, Introduction to Schools

**Tch Ed 2212**, Introduction to Learners

**Level II: Analyzing the Nature and Process of Education****Tch Ed 3310**, Introduction to Instructional Methods**Tch Ed 3312**, Psychology of Teaching and Learning**Tch Ed 3313**, Psychology of the Exceptional Child**Tch Ed 3315**, Literacy Learning and Instruction**Cns Ed 3220**, Counseling Individuals with Special Needs**Spc Ed 4315**, Speech and Language Problems Exceptional Children**Spc Ed 4342**, Transitions Issues and Planning**Spc Ed 3345**, Education Programs for Students with Disabilities**Ed Rem 3721**, Psychoeducational Assessment and Evaluation (3)**Level III: Synthesizing Theory and Practice in Education****Ele Ed 3336**, Teaching Language Arts and Reading, N-9**Ele Ed 4246**, Teaching Mathematics in the Elementary School**Ele Ed 4253**, Teaching Social Studies in the Elementary School**Ele Ed 4341**, Teaching Science in the Elementary School

Must take the following 6 credit hour course during the same semester as Special Education Professional Internship ( **Spc Ed 4989** )

**Ele Ed 4342**, Addressing Needs in Mathematics Teaching & Learning (3)**Spc Ed 3346**, Literacy Assessment & Reading for Students with Special Needs (3)**Spc Ed 3349**, Cross Categorical Special Education II (3)**Spc Ed 4989**, Special Education Professional Internship**Student Teaching****Spc Ed 4990**, Student Teaching in Elementary Education (6)**Spc Ed 4991**, Student Teaching in Special Education II (6)

**Note: Spc Ed 4990 and Spc Ed 4991 must be taken during the same semester.**

**Attention education majors:** Professional education courses must be completed with a grade point average of 2.5 and no grade lower than a C.

Total: Minimum of 126 hours

**Graduate Studies****Master of Education: Special Education**

The M. Ed. Program in special education includes a representation of the important core knowledge in Special Education. The primary goal is to empower professionals to be thoughtful teachers who use best practice when working with students with disabilities. Research and data-based decision making are emphasized throughout the program. Graduate students will translate research into practice in multiple courses and learn to analyze multiple types of assessment data. The M. Ed. Program in Special Education consists of an initial required core of courses; an opportunity to develop an area of specialization; and a capstone or exit course.

When graduate students are accepted into the program they are required to have their transcripts analyzed for state certification discrepancies. Students who wish to be certified in cross-categorical disabilities will be required to fulfill general certification requirements as well as graduate coursework. Upon completion of this advanced degree, professionals will have developed an in-depth knowledge-base related to

- various learning contexts within and outside of the school setting
- the multiple influences on educational practices in schools
- the characteristics and instructional needs of learners with disabilities
- assessment strategies for monitoring instruction
- instructional best practice
- using research to direct practice in the classroom
- diversity
- contexts that affect student learning
- the powerful interactions between setting events and specific learner outcomes
- a life-perspective of students with exceptional learning needs that addresses the need to successfully meet the needs of young children who transition into kindergarten as well as preparing older students for their transition into adulthood.

**1) Required Core (9 hours)**

Students are required to complete the following courses within the first 15 hours of study.

**Tch Ed 6010**, Examining History, Community, and Social Justice in Education (3 hours)

**Tch Ed 6020**, Teacher Action, Advocacy & Leadership (3 hours)  
**Tch Ed/Ed Psy 6030**, Instruction, Learning & Assessment (3 hours)

**2) Required Research Course (3 hours)**

**Ed Rem 6040**, Educational Research for Teachers (3 hours)

**3) Special Education Concentration (12 hours )**

**Spc Ed 6325**, Advanced Behavior Management (3)  
**Spc Ed 6415**, The Law & Special Education (3)  
**Ed Psy 6545**, Consultation in Schools and Other Settings (3)  
**Spc Ed 6441**, Instructional Methods for Exceptional Learners

**4)Special Education Concentration Electives (6 hours):**

Students may select at least 6 hours in one of the following concentration areas or any combination of 6 hours of special education electives with the approval of their advisor..

**Positive Behavior Support**

**Spc Ed 6435**, Schoolwide Systems of Positive Behavior Support (3)  
**Spc Ed 6436**, Individual Systems of Positive Behavior Support (3)

**Cross Categorical**

**Spc Ed 6345**, Characteristics of Cross Categorical Disabilities (3)  
**Spc Ed 6349**, Education of Learners with Cross Categories Disabilities (3)

**Developmental Disabilities**

**Spc Ed 6430**, Characteristics of Developmental Disabilities (3)  
**Spc Ed 6431**, Education of Learners with Developmental Disabilities (3)

**Learning Disabilities**

**Spc Ed 6443**, Characteristics of Learning Disabilities (3)  
**Spc Ed 6444**, Education of Learners with Learning Disabilities (3)

**Emotional/Behavioral Disorders**

**Spc Ed 6450**, Characteristics of Emotional/Behavioral Disorders (3)  
**Spc Ed 6452**, Education of Learners with Emotional/Behavior Disabilities (3)

**Early Childhood Special Education**

**Spc Ed 6462**, Introduction to Early Childhood Special Education (3)  
**Spc Ed 6463**, Curriculum, Methods, and Materials for Early childhood Special Education (3)

**Disability Studies**

**Spc Ed 6410**, Families and Schools in Inclusive Communities (3)  
**Spc Ed 6411**, Law, Policy and Bureaucracy in Education and Disability Studies (3)

**5) Capstone Course (3 hours)**

Students must enroll in the capstone course during their last semester.  
**Tch Ed 6910**, Teacher Action Research Capstone (3)

Total hours: minimum 33 credit hours

Total hours: minimum 33 credit hours

**Career Outlook**

The employment outlook for special Education teachers continues to be favorable, especially in certain positions. In addition to special classroom teaching, graduates of the area have been employed as resource-room teachers, clinical diagnostic personnel, itinerant teachers, Educational resource teachers, consultants, Educational therapists, and sheltered workshop evaluators, and in various supervisory and administrative positions in agencies and schools. In combination with counseling, Educational psychology, physical Education, or other areas, careers can be planned in such occupations as vocational evaluator, counselor for special-needs individuals, and special physical educators.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## College-wide Courses in Education

College of Education | Counseling and Family Therapy | Educational Leadership and Policy Studies |  
Educational Psychology, Research and Evaluation | Teaching and Learning |

### College of Education Home Page

#### Education (Educ)

##### **1065 The University (3)**

A College of Education interdisciplinary course on the principles, development, and organized structure of the university. Special emphasis will be placed on the role of the university in modern society and upon forces affecting the direction of the university and its potential for change. Methods include outside speakers, discussion groups, and laboratory research on UM-St. Louis.

##### **2204 Special Topics in Education (1-3)**

Prerequisites: Completion of 75 hours and consent of instructor. Examination of a special area or topic within the field of education. Topics to be considered will be announced prior to registration and may vary. For elective credit only. This course may be repeated for different topics. Not to exceed a total of six hours credit.

##### **2290 Internship I (6)**

Prerequisites: Senior standing and consent of instructor. Field experience in educational setting under university supervision. Includes planning, research, evaluation, and other professional activities in the student's area of concentration.

##### **2291 Internship II (6)**

Prerequisite: Completion of or concurrent enrollment in Educ 2290. Continuation of Educ 2290.

##### **2297 Independent Study (1-3)**

Prerequisites: Completion of 75 hours and consent of instructor. Independent study through readings, research, reports, and conferences designed to provide depth in areas of study previously introduced in education courses. For elective credit only. May be repeated. Not to exceed a total of three hours credit.

##### **4301 Introduction to Microcomputers in Education (3)**

A course designed to introduce individuals to the microcomputer as an instructional medium. The course will emphasize (1) the history, role, and use of microcomputers in education; (2) learning the elements of programming for the microcomputer; and (3) beginning program construction and debugging operations.

##### **5006 Graduate Workshop (1-10)**

Prerequisite: Consent of instructor.

##### **5993 Practicum in Individualized Instruction (3-6)**

Prerequisites: Completion of the course(s) to which assigned for instruction and consent of instructor. Supervised instruction in individualized programs. Seminar accompanies instructional experience. May be repeated.

##### **6308 Graduate Institute (1-10)**

Prerequisite: Consent of instructor.

##### **6408 Graduate Seminar (1-10)**

Prerequisite: Consent of instructor. Intensive study of selected issues in education.

##### **6475 Microcomputer Applications in Music Education (3)**

Same as Music 5750. Prerequisites: Graduate standing in music. An examination of the potential of microcomputers in the music education field. Experiences with available hardware and software suitable for applications that include inventory, budget, music library cataloging, digital music synthesis, and computer-assisted instruction at all levels.

##### **6476 Microcomputer-Assisted Instruction Curriculum Development in Music (3)**

Same as Music 5760. Prerequisites: Graduate standing in music. Design and development of

Computer-Assisted Instruction (CAI) lessons in music. Commercial courseware and various CAI models will serve as the basis for creating original programs that can be used effectively to implement objectives of the music curriculum for a specific school or school district. The design, refinement, and production of a major CAI program for use in an elementary, secondary, or postsecondary setting is required.

**6477 Advanced Microcomputer Application in Music (3)**

Same as Music 5770. Prerequisite: Graduate standing in music. The study of complex microcomputer applications including music synthesis, MIDI, music-oriented graphics, voice and pitch recognition, administrative applications, and computer-assisted instruction.

**6491 Staff Development and Professional Growth (1-10)**

Designed in conjunction with an individual school district or educational agency and related to problems of education confronting that specific district or agency.

**6998 Thesis Research (1-10)**

Prerequisite: Consent of instructor

**7050 The Research Process I: Framing Research Questions within the Education Literature (3)**

(Same as Ed Adm 7050) Prerequisite: Admission to the Ed.D. or Ph.D. in Education Programs. An overview of the essential elements of research proposals and familiarization with the techniques and tools used to identify important research questions within the education literature. Emphasis is placed on exploring the research literature and both framing and justifying research questions within that literature.

**7415 Emphasis Area Seminar(s) (3)**

Prerequisite: Admission to the doctoral program. All doctoral students are required to take at least two emphasis area seminars consistent with their programs. Students may take additional emphasis area seminars. Obtain a list of emphasis area seminars from the office of graduate studies in education.

**7495 Doctoral Research Tools (1-6)**

Prerequisites: Ed Rem 6710. Structured individual or small group instructional or supervised investigative experience in and with a specific research skill and/or procedure that will be needed in the production of a doctoral dissertation. May not substitute for any existing graduate courses that cover same research tool skills.

**7880 Research Internship I (3)**

Prerequisite: Nine hours of research methods or statistics and consent of instructor. Supervised experience in the conduct of research studies or scholarly inquiry.

**7881 Research Internship II (3)**

Prerequisite: Educ 7880 and consent of instructor. Supervised experience in the conduct of research studies or scholarly inquiry.

**7882 Research Internship III (3)**

Prerequisite: Educ 7881 and consent of instructor. Supervised experience in the conduct of research studies or scholarly inquiry.

**7950 The Research Process II: Developing and Refining Education Research Proposals (3)**

Prerequisites: Completion of 6 hours of ED REM courses numbered 7771 or higher. An in depth examination of the essential elements of a research proposal. Particular emphasis is placed on examining the validity and reliability or the trustworthiness of the design of the proposed research. Tools for identifying research strengths and weaknesses are applied to proposals. Presentation of a written proposal and oral defense of that proposal are required.

**7999 Dissertation Research (1-12)**

Prerequisite: Admission to the doctoral program. Credit awarded only upon successful defense of the dissertation.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Bachelor of Interdisciplinary Studies

The **Bachelor of Interdisciplinary Studies** degree (B.I.S.) provides a flexible, individualized program of study for the self-directed adult learner. The area of study is developed by each student with advisement by faculty.

Oversight of the B.I.S. degree is the responsibility of the Interdisciplinary Studies committee, composed of faculty Arts and Sciences (Humanities, Social Sciences, and Natural Sciences), Business, Education, Engineering, Fine Arts and Communication, and Nursing. The Interdisciplinary Studies Committee will be convened and supported by the Office of the Provost.

### Admission Requirements for the B.I.S. Program

Candidates for the B.I.S. degree must complete an application for admission to the program. Applications must be approved by the Interdisciplinary Studies Committee. The appropriate College to grant the student's degree will be determined by the Interdisciplinary Studies Committee.

- Students must have well-designed, coherent programs of study that are structured to meet the student's unique educational goals, and should not be readily available under any other UM-St. Louis degree program.
- Students must have demonstrated the equivalent of academic proficiency required for any other undergraduate degree at UM-St. Louis.

### Degree Requirements for the B.I.S. Program

Students must complete the university's general education requirements. For details refer to the [general education requirements](#) section of this *Bulletin*.

### Area of Study

In consultation with faculty and staff advisers, students will carry out an area of study of at least 36 advanced semester hours of graded credit that meets their educational goals. Graded credit consists of degree credit courses in which the student received a letter grade of A, A-, B+, B, B-, C+, C, C-, D+, D, D-.

Regardless of the focus, theme, or purpose, the area of study should contribute to an advanced level of academic competence and achievement.

The program must be approved by the faculty adviser, and Interdisciplinary Studies Committee. Students and advisers will periodically review the program and make appropriate modifications when necessary.

### Hour and Grade Requirements

The degree requires completion of 120 semester hours with a 2.0 campus grade point average overall and in the area of study. No more than 30 hours must be taken in one department. At least 45 hours must be earned in courses beyond the introductory level. A minimum of 24 hours of graded credit must be completed in residence at UM-St. Louis, of which 18 hours must be in the area of study and completed after admission to the B.I.S. program. No more than 18 hours may be taken on a satisfactory/unsatisfactory basis. Each candidate must be in residence for 24 of the last 30 hours of graded credit (exclusive of courses taken on a satisfactory/unsatisfactory basis).

### Supervised Professional or Service Internship and Independent Research

Credit not exceeding 6 hours may be earned for department-approved professional internship, service internship, or independent research. The projects or activities must be formulated by the student and carried out under the supervision of a faculty member with the approval of the adviser. Students must submit a written report approved by the supervisor upon completion of the projects or activities.

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# BULLETIN 2011

University of Missouri - St. Louis

# 2012

## Public Policy Administration

Course Descriptions |

### **Public Policy Administration Home Page**

#### **Faculty**

**Brady Baybeck**, Associate Professor of Public Policy Administration and Political Science, Director of Public Policy Administration

Ph.D., Washington University

**Glen H. Cope**, Professor of Public Policy Administration and Political Science, Provost and Vice Chancellor for Academic Affairs

Ph.D., Ohio State University

**E. Terrence Jones**, Professor of Public Policy Administration and Political Science

Ph.D., Georgetown University

**Carol W. Kohfeld**, Professor Emeritus of Public Policy Administration and Political Science

Ph.D., Washington University

**George J. McCall**, Professor Emeritus of Public Policy Administration and Sociology

Ph.D., Harvard University

**Donald Phares**, Professor Emeritus of Public Policy Administration and Economics

Ph.D., Syracuse University

**Lana Stein**, Professor of Political Science and Public Policy Administration

Ph.D., Michigan State University

**Anne E. Winkler**, Professor of Public Policy Administration and Economics

Ph.D., University of Illinois

**Deborah B. Balsler**, Associate Professor of Public Policy Administration and Business Administration

Ph.D., Cornell University

**Andrew D. Glassberg**, Associate Professor of Public Policy Administration and Political Science

Ph.D., Yale University

**Jean Germain Gros**, Associate Professor of Public Policy Administration and Political Science

Ph.D., University of California-Berkeley

**Nancy T. Kinney**, Assistant Professor of Political Science and Public Policy Administration

Ph.D., University of Colorado at Denver

**James M. Krueger**, C.P.A., Assistant Professor of Public Policy Administration and Accounting, Vice Chancellor of Managerial and Technology Services

D.B.A., Indiana University

**John McClusky**, Affiliate Associate Professor of Public Policy Administration and Political Science, Director of Nonprofit Management and Leadership Program

Ph.D., University of California-Berkeley

**Mark Tranel**, Research Associate Professor of Public Policy Administration, Director of Public Policy Research Center

Ph.D., St. Louis University

**David Laslo**, Research Assistant Professor of Public Public Policy Administration, Director of MIDAS, Public Policy Research Center

Ph.D., University of Missouri - St. Louis

**William Winter**, Research Assistant Professor of Public Policy Administration, Research Specialist, Public Policy Research Center

Ph.D., University of Missouri - St. Louis

#### **General Information**

The University of Missouri-St. Louis' Public Policy Administration (P P Ad) program has three components: the Master of Public Policy Administration (MPPA) degree program, the Nonprofit Management and Leadership Program, and the Local Government Partnership.

The Master's Program in Public Policy Administration (MPPA) is an interdisciplinary program designed to

prepare students for managerial and policy analysis positions in the public and nonprofit sectors or in organizations having substantial interaction with the public and nonprofit sectors. The program is a unit of the Graduate School and is accredited by the National Association of Schools of Public Affairs and Administration. Core faculty are on joint appointments in public policy administration and disciplines such as economics, political science, sociology, or business administration. The program includes courses in policy analysis, public administration, management, budgeting, and economics in the core curriculum. The University of Missouri-St. Louis' MPPA program differs from existing programs available in the Missouri-Illinois region in its interdisciplinary nature and emphasis on the development of analytic and administrative skills. It is designed to meet the needs of prospective full-time students, as well as those who wish to earn a degree in the evening while continuing to work.

In addition to the distinguished doctoral-level faculty in public policy administration, students have access to courses and faculty in business and other social sciences, to the Public Policy Research Center, and to the Center for International Studies. The P P Ad program serves as an editorial home of the *American Review of Public Administration*.

The full facilities of Campus Computing, and the Laboratory for Quantitative Analysis are available. UM-St. Louis is a member of the Inter-University Consortium for Political and Social Research.

### **Admission Requirements**

Applicants to the MPPA program must meet the general requirements for admission to Graduate School as explained in the Graduate Study section of this *Bulletin*. Students entering the MPPA program may be required to display proficiency in college algebra.

### **Prerequisites**

Students must demonstrate competency in computer-based applications, including spreadsheets, databases, and Internet applications. These competencies must be demonstrated in the first semester of the degree program by completing a computer proficiency examination.

### **Core Curriculum**

All candidates for the MPPA degree must complete 28 hours in the core curriculum sequence composed of the following public policy administration courses:

#### **Administration**

- 6400**, Proseminar in Public Policy Administration
- 6600**, Organizational Behavior and Administrative Processes

#### **Budgeting**

- 6180**, Governmental Budgeting and Financial Control

#### **Economics**

- 6080**, Microeconomics for Policy Analysis
- 6210**, Public Sector Microeconomics

#### **Policy Analysis**

- 6000**, Introduction to Policy Analysis
- 6900**, Cases in Public Policy Administration

#### **Statistics and Applications**

- 6010**, Introduction to Policy Research
- 6750**, Introduction to Evaluation Research Methods

#### **Exit Project**

- 6990**, Exit Project Research

A thesis is not required to complete the program, but students must complete written analyses as part of their course work and/or internships. A thesis is not required to complete the program. However, writing is an important component of the degree, and students will complete written analyses as part of their coursework and/or internships. There is also a one credit hour exit project, P P Ad 6990, taken in the final semester. This exit project is a written analysis of a public policy administration problem, and is defended in an oral examination.

P P Ad 6000 should be taken at the beginning of the program. It is strongly recommended that P P Ad 6010 and P P Ad 6080 be taken early. P P Ad 6900 is a capstone course and must be taken at the end of the program usually in conjunction with P P Ad 6900.

Students may select one of five emphasis areas in which to concentrate their advanced studies: (1) managing human resources and organizations, (2) policy research and analysis, (3) local government management, (4)

nonprofit organization management. Students also may select an individualized emphasis area in consultation with their advisors.

Prior to the completion of 15 hours in the MPPA program, students should identify an emphasis area. In each of the emphasis areas students may be able to substitute another course for a specified elective, with the MPPA Director's approval. Specific requirements for each emphasis area are as follows:

### 1) Managing Human Resources and Organizations

#### a. Required (3 hours)

**P P Ad 6490**, Human Resources in the Public Sector

#### b. Electives (9 hours) chosen from:

**Mangmt 5611**, Advanced Organizational Behavior and Administrative Processes

**Mangmt 5624**, Organizational Training

**Econ 6400**, Labor Economics

**P P Ad 6680**, Negotiating Workplace Conflict

**Pol Sc 3470**, Collective Bargaining

**P P Ad 6950**, Internship – 3 hours (in assignment relevant to emphasis area)

### 2) Policy Research and Analysis

#### a. Required (3 hours)

**Pol Sc 6402**, Intermediate Techniques in Policy Research OR **Econ 4100**, Introduction to Econometrics

#### b. Electives (9 hours) chosen from:

**Pol Sc 6403**, Advanced Techniques in Policy Research or **Econ 3510**, Public Finance: State and Local

**Econ 4110**, Applied Econometrics

**Econ 4160**, Geospatial Economic Analysis

**Econ 4550**, Natural Resource Economics

**Econ 6400**, Labor Economics

**Econ 6760**, Health Economics

**Econ 6900**, Advanced Topics in Economic Analysis

**Pol Sc 6404**, Multi-Method Research

**Pol Sc 6414**, Topics in Public Policy Analysis

**Pol Sc 6422**, Law, Courts, and Public Policy

**Sociol 4040**, Survey Research Practicum or **Sociol 5432**, Survey Research Methods

**P P Ad 6950**, Internship (in assignment relevant to the emphasis area)

### 3) Local Government Management

#### \* a. Required (6 hours)

**P P Ad 6340**, Seminar in City Administration or **P P Ad 6350**, Issues in Urban Management

**AND EITHER**

**Pol Sc 6470**, Proseminar in Urban Politics or **Pol Sc 6471**, Seminar in Urban Politics

#### b. Electives (6 hours) chosen from:

**P P Ad 4940**, Leadership and Management in Nonprofit Organizations

**P P Ad 6680**, Negotiating Workplace Conflict

**P P Ad 6490**, Human Resources in the Public Sector

**P P Ad 6950**, Internship (in assignment relevant to emphasis area)

**Econ 3510**, Public Finance: State and Local

**Econ 6700**, Political Economy of Metropolitan Areas

**Pol Sc 6432**, Intergovernmental Relations

**\* For Local Government Management specialization, courses not taken to fulfill "required 6 hours" may be taken as electives (s).**

**NOTE:** Students interested in careers in local government management are strongly encouraged to take P P Ad 6490, Human Resources in the Public Sector, as one of their electives.

### 4) Nonprofit Organization Management and Leadership

#### a. Required (9 hours)

**P P Ad 4911, 4912, 4913**, Management Issues in Non-Profit Organizations: Staff Management Issues; Legal Issues; Financial Issues

**P P Ad 4940**, Leadership and Management in Non-Profit Organizations

**P P Ad 4960**, American Philanthropy and Non-Profit Resource Development

**b. Electives** - (3 hours) chosen from:

**P P Ad 6490**, Human Resources in the Public Sector

**P P Ad 6550**, Strategic and Program Planning for Nonprofit Organizations

**P P Ad 6680**, Negotiating Workplace Conflict

**P P Ad 6950**, Internship (in assignment relevant to the emphasis area)

**Bus Ad 3451**, Accounting for Governmental and Nonprofit Entities

**Bus Ad 5100**, Managerial Communication

**Bus Ad 5700**, Contemporary Marketing Concepts

**Bus Ad 5900**, Public Policies Toward Business

**Psych 7412**, Social Psychology

### **Individualized Emphasis Area**

Prior to the completion of 15 hours in the MPPA program, the student must present a proposal for 12 hours of specific coursework for approval by the MPPA faculty. The 12 hours must include P P Ad 6950, Internship (in an assignment relevant to the emphasis area) unless the student has significant public or nonprofit sector experience.

### **Internships**

There currently exists a need for well-trained policy administrators and analysts. Frequent contact is maintained with public and nonprofit practitioners and public officials in the St. Louis metropolitan area, providing valuable input for program development, creation of a wide variety of internship possibilities, and assistance with a vigorous placement program for MPPA graduates. Interns may be placed in planning agencies, city managers' offices, administrative departments, or budgeting offices.

An internship is required for students without substantial experience in the public or nonprofit sectors. MPPA students employed in public agencies can receive 3 hours of credit for internships in those agencies. To do so, students must develop, in consultation with their advisors, special research projects outside the scope of their regular employment duties. Credit is granted after successful completion of the project and a written paper at the end of the semester.

### **Graduate Certificate Program in Nonprofit Organization Management and Leadership**

Through the Public Policy Administration Master's Program, the University offers a graduate certificate program for students who are current professional staff, board members, and other leaders of nonprofit and voluntary organizations, as well as those who plan to work in the field. There are only two such graduate programs in Missouri. The certificate can be taken by itself or in conjunction with the pursuit of the master's in public policy administration or a graduate degree in another field. Course credits earned in the certificate program can be applied to the MPPA, but a separate application may be required.

**A.** The graduate certificate in nonprofit management and leadership requires the completion of 18 credit hours. Nine of these are the following core courses:

**1. P P Ad 4940**, same as Pol Sc 4940, Soc, or Soc Wk 4940, Leadership and Management in Nonprofit Organizations (3 hours)

**2. P P Ad 4911**, same as Pol Sc and Soc Wk 4911, Management Issues in Nonprofit Organizations: Staff Management Issues (1 hour)

**3. P P Ad 4912**, same as Pol Sc and Soc Wk 4912, Management Issues in Nonprofit Organizations: Legal Issues in Governing and Managing Nonprofit Organizations (1)

**4. P P Ad 4913**, same as Pol Sc and Soc Wk 4913, Management Issues in Nonprofit Organizations: Financial Issues

**5. P P Ad 4960**, same as Pol Sc and Soc Wk 4960, American Philanthropy and Nonprofit Resource Development (3 hours)

**B.** Six hours of electives are to be taken from selected courses in accounting, business administration, economics, management, marketing, political science, psychology, public policy administration, and sociology. A student may choose among these courses or other courses approved by the program director. (**All** Graduate electives must be at the 6000 course level.)

C. Three hours of internship are also required, or graduate students should demonstrate either a professional field experience equivalent to the internship or be required to participate. Any request for an exemption from the internship requirement must be approved by the nonprofit program director after a review of the student's professional or managerial field experience with appropriate documentation. Students who receive an exemption must take another 3 hours of electives from the selection in area B.

The internship will include learning activities in management and governance processes in nonprofit organizations, as well as a seminar in which students will critically reflect on their field experience with a faculty supervisor.

Requirements of admission to the graduate certificate program are the same as those required for admission to the Graduate School: an undergraduate degree, and a GPA of 2.75 or better.

#### **Graduate Certificate Program in Local Government Management**

Through the Public Policy Administration Master's Program, the University offers a graduate certificate program in local government management for students who are current professional staff, elected or non-elected local government officials or who are interested in pursuing a career in the local government sector. The certificate can be taken by itself or in conjunction with the pursuit of the master's in public policy administration or a graduate degree in another field. Course credits earned in the certificate program can be applied to the MPPA, but a separate application may be required.

A. The graduate certificate in local government management requires the completion of 18 credit hours. Twelve of these are the following core courses:

1. **P P Ad 6340**, Seminar in City Administration or **P P Ad 6350**, Issues in Urban Management (3 hours)or
2. **Pol Sc 6470**, Proseminar in Urban Politics or **Pol Sc 6471**, Seminar in Urban Politics (3 hours)or
3. **P P Ad 6449**, Human Resources Management (3 hours)
4. **P P Ad 6180**, Government Budgeting and Financial Control (3 hours)
5. **American Philanthropy and Nonprofit Resource Development (3 hours) Pol Sc and Soc Wk 4960**

B. Three hours of electives are to be taken from selected courses in, business administration, criminal justice, economics, political science, public policy administration, and sociology. A student may choose among these courses or other courses approved by the program director. Electives will be chosen from the following:

**P P Ad 6340**, Seminar in City Administration  
**P P Ad 6350**, Issues in Urban Management  
**Pol Sc 6470**, Proseminar in Urban Politics  
**Pol Sc 6471**, Seminar in Urban Politics  
**Pol Sc 6440/P P Ad 6400**, Proseminar in Public Policy Administration  
**P P Ad 4940**, Leadership and Management of Non-Profit Organizations  
**P P Ad 6449**, Human Resources Management  
**P P Ad 6180**, Government Budgeting and Financial Control  
**P P Ad/Bus Ad 6680**, Negotiating Workplace Conflict  
**P P Ad 6600**, Organizational Behavior and Administrative Processes  
**Econ 6700**, Political Economy of Metropolitan Areas  
**Crimin 6442**, Communities and Crime  
**Sociol 5430**, Policy Mediation Processes  
**Econ 6750**, The Political Economy of Health Care  
**Pol Sc 6433**, Elections, Public Opinion, and Public Policy  
 \*Other courses may be added as deemed appropriate for content.

C. Three hours of internship are also required, or graduate students should demonstrate either a professional field experience equivalent to the internship or be required to participate. Any request for an exemption from the internship requirement must be approved by the local government program director after a review of the student's professional or managerial field experience with appropriate documentation. **Students who receive an exemption must take another 3 hours of electives from the section in area B.** The internship will include learning activities in management and governance processes in local government jurisdictions, as well as a seminar in which students will critically reflect on their field experience with a faculty supervisor.

Requirements of admission to the graduate certificate program are the same as those required for admission to the Graduate School: an undergraduate degree, and a GPA of 2.75 or better.

## Career Outlook

The current outlook for graduates of the Interdisciplinary Master's Degree in Public Policy Administration Program is quite promising. Recent graduates of this program have found careers as budget analysts, personnel analysts, transportation planners, and human resources planners with local, regional, state, and federal agencies, and the nonprofit sector.

## Course Descriptions

### **4911 Management Issues in Nonprofit Organizations: Staff Management Issues (1)**

Prerequisite: Junior Standing. Same as Pol Sc 4911 and Soc Wk 4911. This course addresses issues involved in managing staff in nonprofit organizations. The course will cover the following topics: fundamentals of staff supervision; balancing supervisory processes with counseling and coaching; selecting, hiring, evaluating, and terminating staff; legal issues that affect these processes.

### **4912 Management Issues in Nonprofit Organizations: Legal Issues in Governing and Managing Nonprofit Organizations (1)**

Same as Pol Sc 4812 and Soc Wk 4912. This course addresses legal issues involved in managing and governing nonprofit organizations. The course will cover the following topics: The Board as steward of the organization; Director and officer liability; tax laws concerning charitable giving; legal issues in managing staff and volunteers (e.g., hiring, evaluating, and terminating employees); Missouri nonprofit law.

### **4913 Management Issues in Nonprofit Organizations: Financial Issues (1)**

Same as Pol Sc 4913 and Soc Wk 4913. This course addresses financial issues involved in governing and managing nonprofit organizations. The course will cover the following topics: Cash flow analysis; budgeting; fund accounting; cost accounting (determining costs for programs and services); understanding and using standard financial statements, including balance sheets, cash flow statements, statements of activity, and operating and capital budgets.

### **4940 Leadership and Management in Nonprofit Organizations (3)**

Prerequisite: Junior standing. Same as Pol Sc 4940, Soc Wk 4840, and Sociol 4940. Addresses the role and scope of the independent sector in the United States, as well as the leadership and management of nonprofit organizations within that sector. Topics include the economic and political scope of the independent sector, the role of volunteerism in a democratic society, and the role and scope of philanthropy. Topics in voluntary organization management and leadership include the dynamics, functions and membership structure of NPOs, especially staff-board and other volunteer relations; governance and management of NPOs; resource mobilization; and program development management and evaluation.

### **4960 American Philanthropy and Nonprofit Resources Development (3)**

Prerequisite: Junior standing or consent of instructor. Same as Pol Sc 4960 and Soc Wk 4960. This course addresses the history, philosophy, roles and scope of philanthropy in the United States, including its role in the nonprofit, voluntary sector. It further examines the contemporary forces which impact philanthropy and charitable giving, both by institutions and individuals. The course examines the effective planning and management of development programs (e.g., annual giving), fund raising vehicles (e.g., mail solicitations) and the fund raising process, form planning through donor relations.

### **6000 Introduction to Policy Analysis (3)**

Same as Pol Sc 6410. Systematic development of a critical/analytic base for dealing with public policy.

### **6010 Introduction to Policy Research (3)**

Same as Pol Sc 6401. Procedures for testing explanations, including research design, principles of measurement, probability sampling, methods of data collection, and techniques for analyzing data.

### **6080 Microeconomics for Policy Analysis (3)**

Prerequisites: Graduate student standing. Same as Econ 5010. This course introduces microeconomic analysis of consumers, firms, and government, with an emphasis on policy applications. It assumes no prior training in economics and is appropriate for graduate students in public policy administration, nonprofit management, political science, gerontology, criminology and criminal justice, and other related fields.

### **6150 Directed Reading and Research in Public Policy (1-10)**

Same as Pol Sc 6415. Prerequisite: Consent of Instructor. Independent study through readings, reports, research projects, and conferences. May be repeated for credit, provided the subject matter is different.

### **6170 Income and Pension Policy for the Aged (3)**

Prerequisite: Graduate standing or consent of instructor. Same as Pol Sc 6417, Geron 6417, and Soc Wk 6417. (MSW students normally take the social policy foundation course prior to enrolling in this course.) Examination of federal, state, and local policies that affect the economic well being of the elderly. The development of social

security programs and pension programs is explored within a historical context. Emphasis is placed on the analysis of current policy problems and proposed solutions.

**6180 Governmental Budgeting and Financial Control (3)**

Prerequisite: Bus Ad 5400. Same as Bus Ad 5450. A study of municipal and federal financial control and budgeting procedures with emphasis on public policy. The impact of financial control on top management decisions and the effect of budget strategies on the allocations of public funds.

**6210 Public Sector Microeconomics (3)**

Prerequisites: Econ 3001, or Bus Ad 5001, or P P Ad 6080. (Same as Econ 5500). Application of tools of intermediate microeconomics to address public sector issues. Special emphasis is placed on critically analyzing current public policy debates using the models developed. Topics covered include: cases in which competitive market fails to allocate resources efficiently (e.g., externalities and public goods), importance of property rights, incentive effects of the tax and transfer system, and the fundamentals of cost-benefit analysis.

**6340 Seminar in City Administration (3)**

This course provides an overview of the working environment of a city administrator and is jointly sponsored by the local city managers association. Professional city personnel make presentations to the students on six major topics: political structure, organizational structure, service delivery, finance, personnel policies and practices, and leadership. The course provides direct observation of city council meetings, visits to various city facilities, exposure to different philosophies and styles of city management, and provides students a chance to assemble facts, evaluate options, and present policy recommendations for real problems that local administrators face.

**6350 Issues in Urban Management (3)**

Designed to evaluate management issues that confront managers in local government from a political perspective. The format will include an intense review and discussion of original case studies from actual local government situations. The specific focus of this course will vary. Course may be repeated.

**6400 Proseminar in Public Administration (3)**

Same as Pol Sc 6440. Examination of major approaches to analyzing public policies and their administration. Emphasis is on the effects of administrative organization and procedures on policy decisions and their impacts. Specific topics may include administrative accountability, intergovernmental relations, public-private interaction, implementation processes, bureaucratic expertise, the legal environment of public policy administration, and public service and merit issues.

**6430 Health Care Policy (3)**

Prerequisites: Graduate standing and consent of instructor. Same as Pol Sc 6443, Geron 6443, and Soc Wk 6443. (MSW students will normally take the social policy foundation course prior to enrolling in this course). Survey course examining current issues in health policy that face the nation. Policies are placed in a historical context to show how issues have been influenced by different political and economic conditions. Secondary consequences and limitations of current trends in health policy are explored.

**6440 Seminar in Public Policy and Aging (3)**

Prerequisite: Consent of instructor. Same as Geron 6444 and Pol Sc 6444. The study of specialized issues and methods related to federal, state, and local policies that affect the elderly. Potential policy areas to be covered include housing, taxation, mental health, transportation, etc. May be repeated for credit, provided the subject matter is different.

**6460 Selected Topics in Health Care Policy (3)**

Prerequisite: Consent of instructor. Same as Pol Sc 6446 and Sociol 6446. The study of specialized issues and methods relating to health care policy. May be repeated for credit, provided the subject matter is different.

**6490 Human Resources in the Public Sector (3)**

Prerequisite: P P Ad 6600 or consent of instructor. Same as Pol Sc 6449 and Soc Wk 6449. Presents an overview of personnel and labor relations in the public sector. Particular emphasis placed on issues which are unique to the public sector, such as the merit system, the questions of representative bureaucracy and the constraints of personnel in the nonprofit sector. The topics include personnel reforms in the federal sector, equal employment and affirmative action policies, testing, selection, hiring, comparable worth, job evaluation, and labor relations including grievance arbitration and collective bargaining.

**6510 Urban and Regional Planning and Public Policy (3)**

Prerequisites: Graduate standing or consent of instructor. Focuses on the interdependent processes of urbanization and public policy. Students will acquire an understanding of urban planning and public policy in North America.

**6550 Strategic and Program Planning for Nonprofit Organizations (3)**

Prerequisites: Graduate standing or consent of instructor. Same as Pol Sc 6490 and Soc Wk 6491. Strategic

and program planning enable an organization to concentrate on efforts and set priorities guided by a mission, vision, and an understanding of its environment. Focus is on preparing a strategic plan and a program plan for a nonprofit organization and analyzing an organization's ability to deliver goods and/or services to its constituents in today's economic, social and political climate.

**6600 Organizational Behavior and Administrative Processes (3)**

Same as Mangmt 5600. The theoretical and research contribution of the behavioral sciences to management and administration are examined and applied to selected organizational situations. Areas to be considered from the standpoint of both individual and organizational performance are communication, motivation, conflict, decision making, goal setting, leadership, organizational design, climate, development, and control. Utilizing a systems perspective, the course attempts to develop in each student an ability to analyze and solve organizational problems.

**6680 Negotiating Workplace Conflict (3)**

Prerequisites: P P Ad/Mangmt 5600, and Graduate Standing. Same as Mangmt 5612 and Sociol 5451. Examines conflict and cooperation between individuals, groups, and organizations over the control of work. A central theme is how this conflict is expressed, controlled, and resolved. Students will participate in exercises to learn the basics of two-party negotiations.

**6750 Introduction to Evaluation Research Methods (3)**

Prerequisites: At least one course in Research Design and Statistics at the graduate level. Same as Psy 5475, Sociol 5475, and Crimin 5475. A comparative study of research strategies with regard to data sources, data collection, and modes of analysis that are appropriate for program evaluation research. Attention is given to observational, survey, and quasi-experimental designs.

**6800 Management Information Systems (3)**

Prerequisite: None. (Same as Inf Sy 5800). This course provides an overview of the established and contemporary issues related to information systems within organizations. Topics include the practices and tools associated with topics such as the management of IS-based investment projects, the design and implementation of IS, the alignment of IS strategy with organizational strategy, information security and privacy, and gaining a competitive advantage through IS.

**6900 Cases in Public Policy Administration (3)**

Prerequisites: 24 hours of public policy administration courses, at least 15 of which are in core courses. This capstone course intensively analyzes public policy administration cases drawn from a variety of issues and settings.

**6950 Internship (3)**

Independent study involving work with an appropriate public, private, or nonprofit agency.

**6990 Exit Project Research (1)**

Prerequisites: Completion of or simultaneous enrollment in other degree requirement courses. The exit project is viewed as the capstone of the MPPA program. As such, it is meant to be undertaken toward the end of a student's program, usually during the final semester. Its purpose is to provide evidence to the faculty that the degree candidate has mastered the skills acquired in the various courses completed during residence at the University and can apply them to the analysis of a practical research problem.

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# BULLETIN 2011 2012

University of Missouri - St. Louis

## Pierre Laclède Honors College

Course Descriptions |

### **Pierre Laclède Honors College Home Page**

The Pierre Laclède Honors Collegemission is to enrich the educational experience of a select group of highly motivated and intelligent undergraduates. With this in mind, it enrolls students who are ready to accept academic challenges and become creatively involved in the learning process.

The college has a unique structure and identity. Unlike the university's other colleges, it has no academic departments and it grants no degrees. Instead, it brings together a cross section of students and teachers in a special curriculum, designed to meet students' general education and other breadth of study requirements.

- A four-year program open to entering freshmen and extending over a student's entire undergraduate career;
- A two-year program open to select third-year students who are either continuing at or have transferred to the university.
- Honors College courses are generally taught seminar style, with a stress on reading, small group discussion, and writing.

### **Faculty**

Honors College instructors are drawn from university faculty in all academic divisions but mainly from the "traditional disciplines" of the Arts, Humanities, Social Sciences, and Sciences. These teachers share a desire to work closely with intellectually curious, high-achieving students. Faculty design courses directed toward such an audience and based on small discussion seminars. Thus the honors faculty grows each year as new faculty join the honors project. Their talents add to the Honors College's rich instructional pool of more than 100 regular and full-time faculty, many of whose teaching and scholarship have been singled out for special awards.

In addition, the Honors College has six full-time academic faculty members whose responsibilities (besides instruction) include admissions, student advice, and curricular design. These faculty are:

**Robert M. Bliss**, Associate Professor, dean  
Ph.D., University of Wisconsin-Madison)

**Nancy Gleason**, Teaching Professor, associate dean, and director of writing.  
M.A., University of Missouri-St. Louis

**Kimberly Baldus**, Associate Teaching Professor.  
Ph.D., Northwestern University

**Gerianne Friedline**, Lecturer  
M.A., University of Missouri-St. Louis

**Daniel Gerth**, Assistant Teaching Professor  
M.A., University of Missouri-Columbia

**Chad Hankinson**, Assistant Teaching Professor  
M.A., State University of New York at Buffalo

**Birgit Noll**, Associate Teaching Professor  
M.A., Washington University in St. Louis

### **Honors Students**

Honors College students are highly qualified and motivated individuals from a broad range of public and private secondary schools and colleges. They enter the college with diverse backgrounds and interests and remain part of it while simultaneously enrolling in classes and pursuing bachelor's degrees in other academic divisions of the university.

Most honors students major in the traditional liberal arts disciplines spanning the humanities, social sciences, mathematics, and natural sciences, but over a third use their undergraduate education to prepare for careers in business, education, nursing, or engineering. Whatever their majors, most Honors College students plan to go on to graduate study or professional schools, although a significant number successfully seek employment immediately after graduation. Honors faculty and staff provide advice and guidance in both course choice and

career plans..

### **The Honors College Writing Program**

Both two- and four-year programs include participation in the Honors College writing program, Writing through the Curriculum, which involves writing in most honors seminars as well as formal courses in composition (including *at least one* of **Honors 1100 and 3100**) and informal consultations with the director of the writing program. In the final year, this culminates in the compilation of a personal Honors College writing portfolio (**Honors 4100**).

### **Independent Study Requirement**

All Honors College students, whether in the four-year or the two-year program, must fulfill a 6-credit-hour independent study requirement. This can be met in several ways, including supervised research, guided reading, internships, and in many cases capstone courses in the major. Additional financial support is available for supervised undergraduate research projects in all majors.

### **Four-Year Program (40 credit hours total):**

Approximately one-third of the 120 hours honors students earn toward graduation are taken in the Honors College or under its auspices. Most of these credits are associated with a sequence of honors courses designed specifically for the college, the majority of which are taken during the first two years. During this period, these students fulfill virtually all of the university's general education requirements, usually in innovative ways. In their junior and senior years, honors students also may earn honors credit for work done within their major fields, work which includes the possibility of internships, independent study projects, and advanced undergraduate research.

### **First Year**

Students take **Honors 1100, 1200, and 1201**, and one course each from the Western Traditions and Non-Western Traditions seminar series. Students may take a seminar from the American Traditions series as an elective or in place of the Western Traditions seminar. \*

**1100**, Freshman Composition

**1200**, Freshman Symposium: Cultural Traditions I

**1201**, Cultural Traditions II

**1110-1150**, The Western Traditions Series

**1210-1250**, The American Traditions Series (elective)

**1310-1350**, The Non-Western Traditions Series

### **Second Year (6 credit hours):**

Students take **two** of the following **Honors** classes:

**2010**, Inquiries in the Humanities

**2020**, Inquiries in the Fine and Performing Arts

**2030**, Inquiries in the Social and Behavioral Sciences

**2040**, Inquiries in Mathematics and Computing

**2050**, Inquiries in the Sciences

**2060**, Inquiries in Business

**2070**, Inquiries in Education

**2080**, Inquiries in Nursing

Honors students in the four-year program who take **Honors 3100** ("Writing the City") may present it for their honors certificate as one of their 3000-level seminars. They may also, depending on their major, present it to meet their graduation requirement for Junior level composition.

During the first two years, honors students will take additional course work in other areas, such as mathematics, natural science, foreign language, and major prerequisite classes to satisfy various university, Honors College, and specific degree requirements.

### **Third and Fourth Years (19 credit hours):**

Honors students in the four-year program **take at least four** seminars (12 credit hours) from the Advanced Seminar (**3010-3080**) and/or Research Seminar (**3510-3580**) series. They may take more where this is compatible with their major and/or minor requirements. In addition, honors students do 6 credit hours in independent study projects, normally in or closely related to their major field. These independent study projects normally carry credit in the major, but can be done as Honors College independent study or research projects (**Honors 4900-4990**). During the final year, students also take **Honors 4100**, a capstone for the Honors College writing program.

### **Two-Year Program (22 credit hours total):**

Students in this program will take a combination of Honors College seminars and honors independent study credit (usually for work done in their major fields). The 22 credit hours must include 6 credits of independent study, as for the four-year program.

**Third Year (9 credits):**

During the first year of the two-year program, students take three honors seminars, including **3100**, Advanced Composition: Writing the City; one course from the **Inquiries** series (**2010-2080**); one course from *either* the Advanced Seminar (**3010-3080** or Research Seminar (**3510-3580** series. In addition, 3 credit hours of independent study may be taken during this year, normally in or closely related to their major.

**Fourth Year (7 credits):**

The final year of the two-year program involves three courses chosen from the 3000 and 4000 level options, including **4100**, the honors writing portfolio, and at least one course chosen from the **3010-3080** or **3510-3580** series. In addition, students will complete their independent study requirements with 3 or 6 hours of project, internship, or research work.

**Honors and Nursing; Honors and Engineering**

Because of the extensive professional requirements for both Nursing and Engineering, the Honors College has, with the support of the relevant faculties, created special programs for Nursing and Engineering majors who wish to pursue the Honors College certificate. Both programs feature reduced Honors College credit hour requirements but retain the core of the Honors program and give students ample opportunities to experience interdisciplinary inquiry, seminar-based learning, and take part in the Honors College Writing Program.

**Honors and the Bachelor of Liberal Studies (BLS).** Pierre Laclède Honors College students who wish to present the Honors Certificate as a minor for the BLS must complete the Honors Capstone (Honors 4100, one or two credit hours ) and also direct three to six hours of their Honors independent study requirement to work demonstrably relevant to their BLS program. Students should consult the BLS faculty advisor in the Honors College about this requirement. For other information on BLS requirements, please refer to the "Minors in Interdisciplinary Studies" section under the College of Arts and Sciences.

**Other Academic Features and Requirements****Pass/Fail**

The satisfactory/unsatisfactory option does not apply to any course work undertaken for Honors College credit.

**Admission and Retention**

To be considered for admission to either the two-year or four-year honors program, a candidate must file a special Honors College application as well as a general university application. These application forms and additional information concerning scholarship and stipend awards, general eligibility guidelines, and the admissions process are available from the Honors College admissions office at (314) 516-7769 or from the University Admissions. See also the [Honors College website](#).

**Scholarships and stipends**

Every new freshman or transfer student admitted in good standing to the Honors College receives academic scholarship support. Students continue to receive these awards as long as they meet the criteria associated with their particular scholarship. .

**Good academic standing**

To remain in good standing, a student must maintain a cumulative GPA, in all his or her UM-St. Louis courses, of at least 3.2, and must continue to meet the requirements of the honors program for which he or she was initially admitted. Unless other arrangements have been made, Honors College students are also expected to be full time, that is, to register for and satisfactorily complete at least 12 credit hours per semester. Students wishing to enter the Honors College as part-time students, or to change to part-time status, must make prior arrangements with the Honors College dean.

**UM-St. Louis: an Urban Land Grant Institution**

Given its location in St. Louis, and because it is part of an urban land grant university, Pierre Laclède Honors College seeks to encourage awareness of the manifold benefits of pursuing an undergraduate education in a dynamic and varied urban community. This is accomplished partly through the Honors Curriculum through facilitating cultural and other outings in the city, and by encouraging students to include in their academic program courses, research projects, and/or internships which exploit the university's manifold connections with city people and its partnerships with leading city institutions such as the Missouri Botanical Gardens, the Missouri Historical Society, and the Mercantile Library of St. Louis. Many honors students fulfill all or part of their independent study requirements working through such partnerships.

**International Study and Other Exchange Programs**

Honors students are encouraged to consider a semester's or a year's study at another institution. This can be done through the University's Center for International Studies, which administers exchanges with more than 70 universities in Europe, Africa, Asia, Australia, and South and Central America as well as the Missouri-in-London program. Students not wishing to go abroad may, through the **National Student Exchange**, which is administered for the university by the Honors College, attend any one of more than 100 universities in the

United States, Puerto Rico, Guam, and Canada.

Please note that students in the **Honors and International Business** program are normally required to spend their exchange study through the Center for International Studies.

### Course Descriptions

Please note that all honors courses are planned to fulfill UM-St. Louis graduation requirements, primarily in general education and the state requirement for American history and government. For further guidance on these requirements, please see the university general education matrix.

Selected Honors courses may also meet divisional area study requirements, for instance in international studies or cultural diversity. Please note also that several Honors courses in the 3000 and 4000 levels, can be used to fulfill major, minor, and certificate requirements, where that has been agreed by other divisions or departments of the university.

Honors course lists and descriptions, published each semester before the beginning of the registration period, identify clearly which seminars fulfill these various requirements. When in doubt, students are urged to consult their Honors College advisor.

**Important note:** Unless otherwise indicated, all Honors seminars and courses require students to obtain the consent at the Honors College during registration. In practice, "consent of the dean of the Honors College" means consent of the student's Honors advisor.

#### **1100 Freshman Composition (3) [C]**

Prerequisite: Consent of the dean of the Honors College. Theory and practice of writing expository prose. Emphasis on individual tutorial. Assignments will be linked with topics discussed in Honors 101.

#### **1110-1150 Western Traditions (3)**

Prerequisite: Consent of the dean of the Honors College. All Western Traditions seminars will be based on the reading and discussion of works of exceptional importance in the development of western culture and civilization. The works to be discussed in each seminar will follow a central theme (defined by its particular relevance to the traditional academic disciplinary areas of the humanities, arts, social sciences, mathematics, or sciences) but will relate that theme to wider developments in Western Traditions and to the American concept of a liberal education.

#### **1110 Western Traditions: Humanities [C, H].**

#### **1120 Western Traditions: Arts**

#### **1130 Western Traditions: Social and Behavioral Sciences [C, SS]**

#### **1140 Western Traditions: Mathematics**

#### **1150 Western Traditions: the Sciences**

#### **Cultural Traditions I and II as 'core' seminars.**

These symposium seminars (1200 and 1201) are normal freshman year requirements. Each has its own academic agenda, but both are also related—in theme, problem, or subject matter—to Honors Composition (1100), Western Traditions (1110-1150), American Traditions (1210-1250), and Non-Western Traditions (1310-1350) seminars.

#### **1200 Freshman Symposium: Cultural Traditions I (3)**

Prerequisite: Consent of the dean of the Honors College. This course surveys Western and Non-Western Cultural Traditions from their beginnings until 1800. It will introduce the intellectual traditions of a wide variety of cultures through major works of literature, religion and philosophy.

#### **1201 Freshman Symposium: Cultural Traditions II (3)**

Prerequisites: Consent of the dean of the Honors College. This course surveys Western and Non-Western cultural Traditions from the 1800's to current times. It will introduce intellectual traditions of a wide variety of cultures through major works of literature, religion and philosophy.

#### **1210-1250 American Traditions (3)**

Prerequisite: Consent of the dean of the Honors College. Honors seminars in the American Traditions series involve readings and discussion of major importance in the development of the culture, politics, ideologies, and values which are or have been characteristic of the United States of America. Every American Traditions seminar will cover a broad range of time, and each may include contemporary issues. American Traditions 1230 (Social Sciences) satisfies the American history and government requirement, and any course in the American Traditions sequence may be taken to satisfy one of the core requirements for the American Studies minor.

#### **1210 American Traditions: Humanities (C, H)**

**1220 American Traditions: The Arts****1230 American Traditions: Social and Behavioral Sciences (V, SS)****1240 American Traditions: Mathematics****1250 American Traditions: The Sciences****1310-1350 Non-Western Traditions (3)**

Prerequisite: Consent of the dean of the Honors College. Study of Non-Western societies, "traditional" or "modern," offers a reminder that, however defined, "the West" does not encompass the full range of human potentiality whether in terms of culture, values, behavior or ideas. Based on reading of significant primary texts and/or important secondary works, these seminars remind us of the realities of human diversity and provide perspectives on our own world. Non-Western Traditions seminars may be used to satisfy cultural diversity general education requirements.

**1310 Non-Western Traditions: Humanities [MI, CD, H]****1320 Non-Western Traditions: The Arts [CD]****1330 Non-Western Traditions: Social and Behavioral Sciences [C, V, CD, SS]****1340 Non-Western Traditions: Mathematics [CD]****1350 Non-Western Traditions: The Sciences [CD]****1310 Non-Western Traditions Series Humanities (3)**

Seminars focus on different topics in the humanities but address themes and problems in non-western cultures that are related to the freshmen core classes (Honors 1200 and 1201). These topics will be examined in depth through reading and discussion, and students will produce formal papers and participate in individual or small group presentations.

**1330 Non-Western Traditions Series-Social Sciences (3)**

Seminars focus on different topics in the social sciences but address themes and problems in non-western cultures that are related to the freshmen core classes (Honors 1200 and 1201). These topics will be examined in depth through reading and discussion, and students will produce formal papers and participate in individual or small group presentations.

**1900 Independent Cross-Cultural Readings (1-3)**

This course is an independent readings course centered on cultural interactions. Students will select readings from an approved list of choices related to Western and Non-Western texts. Students will discuss the works with the faculty member online or in person. One formal paper is required for the class with the length relative to the number of credit hours of the course (1-3).

**2010-2080 Honors Inquiries (3)**

Prerequisite: Consent of the dean of the Honors College. Inquiries seminars focus on the particular contributions academic disciplines can make to relatively broad areas of inquiry, and reading, discussion, writing and where appropriate, laboratory work or field trips will enhance students' understanding of the strengths, frailties, and particular characteristics of one or more disciplinary strategies. Inquiries courses may be used to meet relevant General education requirements. Where special arrangements have been agreed, they can meet more specific departmental and divisional requirements. The course number may be repeated for credit whenever the topic is substantially different.

**2010 Inquiries in the Humanities [C, H]****2020 Inquiries in the Fine and Performing Arts [C, H]****2030 Inquiries in the Social and Behavioral Sciences [SS]****2040 Inquiries in Mathematics and Computing [MS]****2050 Inquiries in the Natural Sciences [C, MS]****2060 Inquiries in Business****2070 Inquiries in Education****2080 Inquiries in Nursing****2310 Cultural Diversity in the Humanities (3) [CD]**

This seminar focuses upon cultural diversity themes, texts, and perspectives within the humanities.

**2330 Cultural Diversity in the Social Sciences (3) [CD]**

This seminar focuses upon cultural diversity themes, texts, and perspectives within the social science.

**3010-3050. Advanced Honors Seminar (3)**

Prerequisite: Consent of the dean of the Honors College. Open only to Honors College Students and not acceptable for graduate credit. Usually restricted to juniors and seniors, these advanced seminars focus on in-depth study of a significant body of subject matter. The perspective employed will normally be interdisciplinary or multi-disciplinary and will underscore the value of making connections between diverse areas of study. These courses will not usually require specific prerequisites, but may (with the consent of the appropriate department or division) be taken as major or minor courses. The course number may be repeated

for credit whenever the topic is substantially different.

- 3010 Advanced Honors Seminar in the Humanities**
- 3020 Advanced Honors Seminar in the Fine and Performing Arts**
- 3030 Advanced Honors Seminar in the Social and Behavioral Sciences**
- 3040 Advanced Honors Seminar in Mathematics and Computing**
- 3050 Advanced Honors Seminar in the Sciences**
- 3060 Advanced Honors Seminar in Business**
- 3070 Advanced Honors Seminar in Education**
- 3080 Advanced Honors Seminar in Nursing**

**3100 Honors Advanced Composition: Writing the City (3)**

Prerequisite: Junior standing and consent of the dean of the Honors College. Enhances critical thinking, research, discussion, and writing skills by focusing on the city of St. Louis and on the specific fields of study of those enrolled in the course. Issues such as depth and development of content, voice, style, tone, correct expression, and research techniques are among the topics emphasized. Students maintain a Commonplace Book of journals, drafts, and creative writings; they also submit a minimum of four formal papers. This course is required for transfer students (two-year Honors Program) and an elective for students on the four-year program. For students on either program, Honors 3100 meets the Advanced Composition requirement of the university.

**3160 Honors Writing in the Sciences (3)**

Prerequisites: Junior-level standing and consent of the dean of the Honors College This honors course, designed to meet the needs for students in the science disciplines, will satisfy the campus junior-level writing requirement. This course will stress writing observation reports, academic journals, laboratory reports and a major project suited to the specific area of study of each student enrolled in the class. Instruction will include correct documentation of science sources, synthesis techniques of research information, technology-based research skills and effective laboratory reporting methods. Four formal papers, including one large project, and several informal papers will be required for this challenging course.

**3510-3580 Research Seminar (3)**

Prerequisites: Consent of the dean of the Honors College. Open only to Honors College students and not acceptable for graduate credit. Modeled on and for some students affording a preview of the postgraduate or professional research seminar, Honors Research seminars bring students face to face with primary research, as appropriate in the library, the laboratory, and/or field work, utilizing appropriate disciplinary perspectives and secondary reading. These courses may be cross-listed with other advanced courses in appropriate departments/divisions of the university, and as such may carry specific course prerequisites and/or require the specific consent of the instructor.

- 3510 Research Seminar in the Humanities**
- 3520 Research Seminar in the Fine and Performing Arts**
- 3530 Research Seminar in the Social and Behavioral Sciences**
- 3540 Research Seminar in Mathematics and Computing**
- 3555 Research Seminar in the Sciences**
- 3560 Research Seminar in Business**
- 3570 Research Seminar in Education**
- 3580 Research Seminar in Nursing**

**4100 Independent Portfolio Writing (1 or 2)**

Prerequisites: Consent of the dean of the Honors College and senior status. Open only to Honors College students and not acceptable for graduate credit. Students in this course will meet on a regular basis with the director of writing and other appropriate Honors faculty to revise and polish samples in the Honors writing portfolio which the student has compiled during his or her Honors College enrollment. With the assistance of the Director, the student will write an in-depth analysis of his or her writing and will select the best examples of writing in his or her Honors Portfolio. During this independent study, the student may request help with research skills, writing issues, or application procedures for post-graduate courses or employment. All students must take one credit hour; the two-credit hour option is recommended for students whose plans include graduate or professional school.

**4900 Independent Study in Honors (1-6)**

Prerequisites: Consent of the dean of the Honors College. Open only to Honors College students and not acceptable for graduate credit. Most Honors students will fulfill their Honors independent study requirements in another department or division of the university. Where this is not possible, and where academic credit seems an appropriate reward for the independent study in question, the project may be undertaken as Honors 4900, normally as a 3-credit course. This will involve substantial reading, research, and/or field work, and will be supervised by a permanent member of the Honors College academic staff. Completed proposal forms for this course must be submitted to the Honors College no later than the deadline for university registration.

**4910 Internship. (1-6)**

Prerequisites: Junior/Senior Standing and consent of the dean of the Honors College. This independent study course is designed for students who are participating in an approved, non-paid or paid internship. Often operating in conjunction with the student's major, the class requires an on-going journal and formal paper varying in length according to credit hours and hours of the internship work. Evaluation is based on the student's work, the completed form by supervisor of internship, and assigned papers and journal.

**4915 Honors Independent Off-Campus Internship (1-6)**

Prerequisites: as for Honors 4910. This course is designed for 1 to 6 hours for an outside internship, approved by the Honors College. The student will not be on campus for the hours of this internship and must work for the internship will be submitted online to the Honors College internship supervisor. .

**4910-4990 Honors Independent Research (3)**

Prerequisites: Consent of the dean of the Honors College. Open only to Honors College students and not acceptable for graduate credit. Honors students who wish to conduct individual research projects under the supervision of a member of the university's regular or full-time faculty may register for undergraduate credit and receive financial support on a cost-of-research basis. Such projects will usually be given appropriate course numbers in the student's major (or minor) department. Where this is not possible or otherwise inappropriate, students may register for credit in the Honors 39xx Independent Research series. In order to qualify for financial support and academic credit, completed proposal forms, together with a brief description of the research project, must be approved and signed by an appropriate member of the faculty and submitted to the Honors College not later than the semester deadline for university registration. May be repeated for credit where the research topic/problem is substantially different or where it can be significantly extended. Faculty approval must be obtained for repeat credit.

**4910 Honors Independent Research/Internship in the Humanities****4920 Honors Independent Research in the Fine and Performing Arts****4930 Honors Independent Research in the Social and Behavioral Sciences****4940 Honors Independent Research in Mathematics and Computing****4950 Honors Independent Research in the Sciences****4960 Honors Independent Research in Business****4970 Honors Independent Research in Education****4980 Honors Independent Research in Nursing****4990 Honors Independent Research in Engineering**

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# BULLETIN 2011 2012

University of Missouri - St. Louis

## College of Nursing

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#### Faculty

**Juliann G. Sebastian**, Dean and Professor  
Ph.D., University of Kentucky

**Shirley A. Martin**, Dean Emeritus  
Ph.D., Saint Louis University

**Roberta K. Lee**, Hubert C. Moog Endowed Professor of Nursing,  
Dr. PH, University of Texas-Houston

**Jean Bachman**, Associate Professor,  
D.S.N., University of Alabama-Birmingham

**Anne Fish**, Associate Professor  
Ph.D., University of Michigan-Ann Arbor

**Ruth L. Jenkins**, Associate Professor  
Ph.D., Saint Louis University

**Donna Taliaferro**, Associate Professor  
Ph.D., Texas Women's University-Denton

**Kathleen Borcharding**, Assistant Professor  
Ph.D., Saint Louis University

**Wilma Calvert**, Assistant Professor  
Ph.D., University of Missouri-St. Louis

**Dawn Garzon**, Assistant Professor  
Ph.d., PNP., University of Missouri-St. Louis

**Kuei-Hsiang Hsueh**, Assistant Professor  
Ph.D., University of Arizona

**Judith Maserang**, Teaching Professor,  
Ph.D, Saint Louis University

**Dottye Akerson**, Teaching Associate Professor  
Ph.D., Saint Louis University

**Cynthia Billman**, Teaching Associate Professor, Coordinator, RN-BSN Option  
MSN, University of Missouri-Columbia

**Susann Farberman**, Teaching Associate Professor  
M.Ed., PNP, Washington University

**Susan Kendig**, Teaching Associate Professor  
MSN, PNP, University of Missouri-Kansas City

**Deborah Kiel**, Teaching Associate Professor  
MSN, Saint Louis University

**Sandy Lindquist**, Teaching Associate Professor, Director of the Undergraduate Program  
Ph.D., Saint Louis University

**Ann C. Seckman**, Teaching Associate Professor  
MSN, Clarkson College

**Jennifer, Bussen**, Teaching Assistant Professor  
MSN, University of Missouri-St. Louis

**Julie Campbell**, Teaching Assistant Professor  
MSN, University of Missouri-St. Louis

**Kathy Lee**, Teaching Assistant Professor  
MSN, Jewish Colleges of Nursing and Allied Health

**Elizabeth Mantych**, Teaching Assistant Professor  
MSN, Saint Louis University

**Jean Nelson**, Teaching Assistant Professor  
Ph.D., University of Missouri-St. Louis

**Melodie Rowbotham**, Teaching Assistant Professor

MSN, University of Missouri-St. Louis  
**Diane Saleska**, Teaching Assistant Professor  
 MSN, University of Missouri-St. Louis  
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 MSN, Southern Illinois University-Edwardsville  
**Darlene Sredl**, Teaching Assistant Professor  
 Ph.D., University of Missouri-St. Louis  
**Yakima Young-Shields**, Teaching Assistant Professor  
 MSN, ANP, University of Missouri-St. Louis  
**Vicky Becherer**, Teaching Instructor  
 MSN, Jewish Hospital College of Nursing  
**Beth Dudley**, Lecturer  
 BSN, McKendree College  
**Gary Frandsen**, Lecturer  
 MSN, University of Missouri-St. Louis  
**Chris Recktenwald**, Lecturer  
 MSN, University of Missouri-St. Louis  
**Chris Spencer**, Lecturer and Nursing Lab Assistant  
 BSN, Southern Illinois University-Edwardsville  
**Jennifer Taylor**, Lecturer and Retention Coordinator  
 MSN, University of Missouri-St. Louis  
**Janet Whitworth**, Lecturer  
 MSN, University of Missouri-St. Louis

### General Information

The College of Nursing offers programs at the undergraduate and graduate levels. Knowledge and skills needed to complete the professional licensure examination to become a registered nurse are available through a basic baccalaureate option. Nurses who have obtained their basic nursing education through associate degree or diploma nursing programs may fulfill the requirements for the B.S.N. completion option without repetition of previous nursing education. The Master of Science in nursing program, offers studies in the roles of nurse educator, nurse leader and advanced practice nursing. The Ph.D. program in Nursing is offered in cooperation with the Schools of Nursing at University of Missouri- Columbia and Kansas City. Admission to the Ph.D. program is available at the post B.S.N. and M.S.N. levels.

### Undergraduate Studies

The College of Nursing provides course work leading to the Bachelor of Science in nursing (BSN). The program is accredited by the Commission on Collegiate Nursing Education and approved by the Missouri State Board of Nursing. The undergraduate program offers two means for achieving the bachelor's degree in nursing: studies that are preparatory for completion of the professional nurse licensure examination (pre-licensure track) and advanced placement for the professional registered nurse without repetition of fundamental nursing and clinical courses (RN/BSN track). An accelerated prelicensure option is available for qualified persons who hold earned degrees in nonnursing fields, or outstanding students who have completed all prescribed general education and science course work. Baccalaureate students meeting admission criteria may participate in the Pierre Laclède Honors College. **Students who have been dismissed from another nursing program are not eligible for admission to the pre-licensure BSN program.**

### Bachelor's of Science Degree in Nursing - Traditional 4 Year Track Admission

#### BSN Traditional Admission Criteria

#### NURSING MAJOR (Pre-clinical)

Students admitted to the nursing major begin by completing all nursing prerequisites and general education coursework. **Admission to the nursing major does not guarantee enrollment in clinical nursing courses unless a student is admitted into the Freshmen Honors Program.** In order to be considered for the nursing major students must meet the following criteria:

#### Freshmen Honors Program

#### First-time freshmen and applicants with fewer than 24 transferable college credit hours:

- Minimum cumulative G.P.A. of 3.0 on 4.0 scale
- High school class rank in upper ¼ of graduating class.
- Minimum ACT of 24.
- Eligible for a dmission to the Pierre Laclède Honors College.

**Note:** Students admitted to the Honors Nursing Program will be guaranteed a space in the clinical major, providing satisfactory academic progress.

### **General Freshmen Admission Nursing Major (Pre-clinical) Admission Criteria**

First-time freshmen and applicants with fewer than 24 transferable college credit hours:

- Minimum cumulative G.P.A. of 2.5 on 4.0 scale
- High school class rank in the upper 1/3 of graduating class
- Minimum ACT of 21

### **Transfer Admission to Nursing Major (Pre-clinical) Criteria**

Applicants with 24 or more transferable college credit hours:

- Minimum 2.5 G.P.A. on 4.0 scale on 24 or more transferable credit hours from an accredited college or university.

### **Clinical Major Admission Criteria for 4 Year Traditional Track**

Spaces for the clinical nursing major are assigned on a competitive and space available basis for each admission period. Applicants must meet the following criteria:

- Minimum 2.5 cumulative G.P.A. on 4.0 scale (all attempts of all transferable courses calculated)
- Completion of all prerequisite courses (minimum grade of C-)
- Minimum 2.5 cumulative G.P.A. in Chemistry, Anatomy and Physiology I & II, and Microbiology (first attempt calculated only)
- Required science courses completed within 10 years prior to enrollment

### **To Apply For Nursing Major (Pre-clinical)**

First-time freshmen and applicants with fewer than 24 transferable college credit hours, send the following:

- Completed University application
- Official high school transcripts or GED score
- Official ACT or SAT score
- Official college transcripts, if applicable

Applicants with 24 or more transferable college credit hours, send the following:

Completed University application  
Official college transcripts

### **To Apply For Clinical Major in the 4 Year Traditional BSN Track**

To be considered for the clinical major, students must file a separate clinical major application available through the College's website or Office of Student Services and send it directly to the College of Nursing. Students should complete an application for clinicals during their last semester of enrollment in prerequisite coursework and send the following:

- Completed University application
- Completed College of Nursing clinical application
- Official college transcripts

### **Application deadlines for the clinical major**

To be admitted to the clinical nursing major **all** material must be submitted to the Office of Student services by the following dates:

- Fall admission - February 1st
- Spring admission - October 1st

Clinical Nursing admission forms may be picked up in the Office of Student Services

### **BSN Accelerated Track Admission Criteria**

#### **Degree transfer pathway to accelerated option**

- Baccalaureate or higher degree from a regionally accredited transferable college or university. Applicants not holding a baccalaureate degree must have completed 62 transferable credit hours from a regionally accredited college or university.
- Minimum grade point average of 3.0 on 4.0 scale for students with baccalaureate or higher

- degree or 3.2 on a 4.0 scale for students not holding a baccalaureate degree.
- o Completion of all prerequisite general education and science courses for the major in nursing with grade of C or higher.
- o Two letters of recommendation that address applicant's ability to be a self-directed learner.
- o Required science courses completed within 10 years prior to enrollment.

Students are required to furnish their own transportation to and from campus and clinical agencies. Students must have automobile access for all community experiences through the program. For specific information regarding the B.S.N. degree program, contact Office of Student Services at (314) 516-6066 or 1-888-NURSEUM or visit the [College of Nursing website](#).

#### **Credit by Transfer and Examination**

Credit may be granted for selected general studies. See Admission and Application Procedure section in this *Bulletin* for credit information.

#### **Degree Requirements for B.S.N.**

The bachelor of science in nursing degree requires comprehensive course work in general education and nursing. Basic undergraduate nursing course work includes theory, on-campus laboratory and clinical activities. Clinical experiences require weekday, evening, and/or weekend commitments. Full-time study in the prelicensure baccalaureate track can be completed in four academic years. The prelicensure accelerated track requires full-time study and can be completed in 15 months. The RN/BSN track is offered at selected metropolitan sites, on-campus, and by Internet. Clinical activities in the RN/BSN Program are community-based and may be completed in the student's home community.

#### **Satisfactory/Unsatisfactory**

Undergraduate nursing majors may not take required related area general education or nursing courses on a satisfactory/unsatisfactory basis.

#### **Undergraduate Degree Requirements**

##### **General Education Requirements**

Nursing majors must complete all general education requirements of the university as outlined in this *Bulletin* (see Undergraduate Studies, General Education Requirements).

In addition to meeting the university's general education requirements, the following prerequisite courses must be completed prior to beginning the clinical major. See a curriculum planning guide for specific courses and proper sequencing.

##### **1) Natural science course work**

**Biol 1131**, Human Physiology and Anatomy I

**Biol 1141**, Human Physiology and Anatomy II

**Biol 1162**, General Microbiology

**Chem 1052**, Chemistry for Health Professions (or equivalent)

##### **2) Behavioral and social science course work**

**Psych 1003**, General Psychology

**Psych 1268**, Human Growth and Behavior

**Econ 1000**, Introduction to American Economy (or equivalent)

##### **3) Humanities**

Any Philosophy course (as part of the University's 3 humanities requirement)

##### **4) Nursing**

**Nurse 1010**, Orientation to Nursing

**Nurse 2103**, Nutrition and Health (or equivalent)

**Nurse 2105**, Communication in the Nursing Profession (or equivalent)

**Nurse 3799**, Quantitative Analysis in the Health Sciences (or equivalent)

#### **Nursing Course Work Requirements**

##### **Prelicensure - 4 year traditional and accelerated tracks**

**3101**, Nursing and Health \*

**3106**, Assessment of Clients in Health and Illness\*

**3110**, Pathophysiological Bases of Nursing Practice

**3111**, Pharmacotherapeutics in Nursing Practice

**3205**, Adult Health Nursing I\*

**3206**, Adult Health Nursing II\*

**3214**, Psychiatric Mental Health Nursing\*  
**3215**, Nursing of Women and Childbearing Families\*  
**3216**, Child and Family Health Nursing\*  
**3804**, Ethical and Legal Dimensions of Nursing Practice  
**3807**, Nursing Research  
**3808**, Management and Leadership in Nursing  
**3817**, Introduction to Nursing and Health Informatics  
**4300**, Community Health Nursing\*  
**4310**, Senior Synthesis\*  
 Nursing elective (required for 4 year traditional track students)

#### **POST LICENSURE RN to BSN**

The RN to BSN curriculum is designated to be completed in six consecutive semesters and takes two years to complete. The Innovative FLEX Program offers flexibility and accessibility in a part-time program. The FLEX Program allows students to choose to complete their BSN online, on campus, or at various satellite sites in the St. Louis area.

#### **Admission Requirements RN to BSN**

- Admission to the University (see Undergraduate Admission and Application Procedure section in this *Bulletin*.)
- Graduate of either an accredited diploma or associate degree program in nursing.
- Evidence of current licensure as a registered nurse with eligibility for licensure in Missouri.
- Cumulative grade point average of 2.5 (4.0 scale) on all previous college-level course work. (excluding nursing course work)
- Minimum of 30 academic hours of college credit applicable to a degree.

#### **RN to BSN-C**

**3807**, Nursing Research (or equivalent)  
**3808**, Management and Leadership in Nursing  
**3817**, Introduction to Nursing and Health Informatics  
**3900**, Dimensions of Professional Nursing  
**3920**, Health Assessment\*  
**4901**, Family and Community Nursing\*  
**4905**, Values in Professional Nursing  
**4911**, Synthesis in Nursing Practice\*  
 \* Includes a laboratory and/or clinical component

### **Graduate Studies**

#### **Master of Science in Nursing**

The College of Nursing offers master's degree nursing studies in three functional roles: nurse educator, nursing leadership, and advanced practice nurse.

Clinical specialization for students in the advanced practice role is offered in the areas of:

- Health care of the family
- Health care of the adult.
- Health care of women
- Health care of children.
- Health care of neo-nate

This graduate program offers students three ways of completing the master of science in nursing degree: completion of a minimum of 36 credit hours with emphasis in the role of the nurse educator; completion of a minimum of 36 credit hours with emphasis in the role of the nurse leader of health systems; and completion of a minimum of 43 credit hours with emphasis in the role of advanced practice nurse (clinical nurse specialist or nurse practitioner). Those selecting the Advanced Practice Nursing functional role option will be eligible to complete national certifying examinations. National certification examinations also are available in Nursing Education and Nursing Administration. Opportunities are also available for completion of post M.S.N. requirements leading to eligibility for practitioner certification. **Graduates completing the clinical specialization or practitioner functional options are eligible for recognition as advanced practice nurses in Missouri.**

#### **MSN Program Admission Requirements**

##### **Nurse Educator:**

- B.S.N. from a nationally accredited nursing program.
- Minimum cumulative grade point average of 3.0 (4.0 scale).

- o Current professional licensure.
- o Successful completion of an undergraduate descriptive and inferential statistics course.
- o Successful completion of an undergraduate health assessment course or equivalent
- o Computer literacy.
- o Basic cardiac life support certification.

#### **Nursing Leader**

- o B.S.N. from a nationally accredited nursing program.
- o Minimum cumulative grade point average of 3.0 (4.0 scale)
- o Current professional licensure with eligibility for licensure in Missouri
- o Successful completion of an undergraduate descriptive and inferential statistics course
- o Computer literacy
- o Successful completion of an undergraduate health assessment course or equivalent.

#### **Advanced Practice Nurse (Clinical Nurse Specialist or Nurse Practitioner)**

- o B.S.N. from a nationally accredited nursing program
- o Minimum cumulative grade point average of 3.0 (4.0 scale)
- o Current professional licensure with eligibility for licensure in Missouri
- o Successful completion of an undergraduate descriptive and inferential statistics course
- o Successful completion of an undergraduate health assessment course
- o Computer literacy

The Nurse Practitioner option also requires:

- o Two letters of reference
- o Narrative outlining goals.
- o Two years of clinical experience with chosen population

Availability of clinical resources may limit the number of applicants accepted to the practitioner option. Students are required to find their own Preceptors for the Nurse Practitioner Clinical Courses N6954 and N6955. **Deadline for fall admission is July 1st. Deadline for spring Admission is December 1st. Deadline for summer is May 1st.**

#### **All MSN Programs**

#### **Degree Requirements**

##### **Nurse Educator**

**6104**, Values and Cultural Diversity in Advanced Practice  
**6106**, Policy, Organization, and Financing of Health Care  
**6140**, Health Promotion Across the Life Span  
**6111**, Theoretical Foundations in Nursing  
**6112**, Nursing Research Methods  
**6114**, Evidenced Based Nursing  
**6309**, Role of the Nurse Educator  
**6320**, Learning and Curriculum Development in Nursing  
**6321**, Instructional Strategies in Nursing Education  
**6952**, Synthesis Practicum  
**Educ 6410**, The Adult Learner  
**Ed Rem 6707**, Classroom Measurement and Evaluation or  
**Ed Rem 6709**, Educational and Psychological Measurement

##### **Nursing Leadership of Health Systems**

**6104**, Values and Cultural Diversity in Advanced Practice  
**6106**, Policy, Organization and Financing of Health Care  
**6111**, Theoretical Foundations in Nursing  
**6112**, Nursing Research Methods  
**6114**, Evidenced Based Nursing  
**6140**, Health Promotion Across the Life Span  
**6409**, Role of the Nurse Leader  
**6425**, Managed Care Services  
**6426**, Health Resources Management  
**6428**, Theory and Practice in Nursing Leadership  
**6952**, Synthesis Practicum

Elective from Nursing, Business, or Managerial Decision Making and Informatics

##### **Advanced Practice Nurse (Clinical Nurse Specialist or Nurse Practitioner)**

**6104**, Values and Cultural Diversity in Advanced Practice  
**6106**, Policy, Organization and Financing of Health Care

- 6111**, Theoretical Foundations in Nursing
- 6112**, Nursing Research Methods
- 6114**, Evidenced Based Nursing
- 6140**, Health Promotion Across the Life Span
- 6509**, Role of the Clinical Nurse Specialist/ Nurse Practitioner
- 6518**, Pathophysiology for Advanced Nursing Practice
- 6524**, Health Assessment for Advanced Nursing Practice
- 6520**, Pharmacology for Advanced Nursing Practice
- 6739**, Adult Primary Care I: Diagnosis & Management in Advanced Nursing Practice OR
- 6741**, Family Health I: Diagnosis & Management in Advanced Nursing Practice OR
- 6743**, Child Health I: Diagnosis & Management in Advanced Nursing Practice OR
- 6746**, Women's Health I: Diagnosis & Management in Advanced Nursing Practice OR
- 6740**, Adult Primary Care II: Diagnosis & Management in Advanced Nursing Practice OR
- 6742**, Family Health II: Diagnosis & Management in Advanced Nursing Practice OR
- 6744**, Child Health II: Diagnosis & Management in Advanced Nursing Practice OR
- 6747**, Women's Health II: Diagnosis & Management in Advanced Nursing Practice
- 6954**, Advanced Practice Nursing: Internship I
- 6955**, Advanced Practice Nursing: Internship II

### **Doctor of Philosophy in Nursing**

The Ph.D. in nursing program at the University of Missouri-St. Louis affords students with academic, clinical, and research resources of the University of Missouri system through a cooperative arrangement with the Schools of Nursing in Kansas City and Columbia.

The curriculum is divided into three general categories of knowledge:

- o Nursing Theory/Science/Modes of Inquiry
- o Quantitative and qualitative research methods,
- o Philosophical foundations of science

### **Admission Requirements**

Doctoral students are admitted at various times during the academic year. Applicants are evaluated based on the following criteria:

- o Graduation from a nationally accredited baccalaureate program with 3.2 minimum GPA (4.0 scale). (post-BSN track)
- o Graduation from a nationally accredited master's program with a 3.5 minimum GPA (4.0 scale). (post-MSN track)
- o Graduate Record Examination (GRE)
- o Two letters of reference.
- o Original essay on professional goals and research interests.
- o International applicants should meet minimum requirements on tests of written and spoken English (TOEFL, Minimum 550 or better is desired).
- o International students must also apply through the International Student Services Office .
- o Interview by invitation.

### **Degree Requirements**

While each program of study is individualized post-BSN, Ph.D. students complete a minimum of 72 hours of graduate-level course work. Post-MSN, Ph.D. students complete 45 credit hours. A maximum of 30 M.S.N. hours, which support the program of study, are individually evaluated to determine eligibility for transfer.

The following defines the overall structure of the program:

### **Nursing Theory/Science/Modes of Inquiry**

**Nursing Theory**, 6-9 hours within the College of Nursing that include the development of nursing science and theory.

- o Philosophical foundations of science.
- o Advanced nursing theory development and validation.

**Nursing Science**, 9-16 hours within the College of Nursing. Of these courses, students choose at least one course from one of the three substantive areas:

- o Health Promotion and Protection
- o Health Restoration and Support
- o Health Care System

### **Quantitative & Qualitative Research Methods,**

### **Philosophical Foundations of Science**

**Research and Inquiry**, 6-12 hours external to the College of Nursing, such as advanced statistics, research design, or computer applications.

**Nursing Research and Inquiry**, 12-18 hours within the College of Nursing that include quantitative design, and methods in nursing research; advanced qualitative design, methods and analysis of nursing data; advanced quantitative measurement and analysis of nursing data; and qualitative methods in nursing research.

**Dissertation**, 12 hours.

**Cognates**, 9-12 hours outside the discipline of nursing which support the selected substantive area.

### **Professional Organizations**

#### **Sigma Theta Tau**

The college is an official chapter--Nu Chi--of Sigma Theta Tau International Honor Society. Membership is offered by invitation to the nursing students in the upper third of their class and to nurses recognized as outstanding community nursing leaders.

#### **Student Nurses' Association**

The College of Nursing is a constituent of the National Student Nurses' Association. The purpose of the organization is to provide baccalaureate students an opportunity to connect with the nursing profession through service and professional development activities. The organization is open to all nursing majors and clinical nursing majors.

#### **Black Student Nurses' Association**

The College of Nursing is a constituent of the Black Student Nurses' Association. The purpose of this organization is to provide black nursing students in the prelicensure baccalaureate track the opportunity to serve as a support group for African-American students, collaborate with other African-American groups to compile archives relevant to African-American nurses, and to promote participation in interdisciplinary activities.

### **CONTINUING EDUCATION-EXTENSION**

Continuing Education offerings in the field of nursing are currently presented to provide nurses with new information, techniques, and trends within the nursing profession.

### **INTERNATIONAL STUDENTS**

All students with International or Permanent Resident status are required to go through an English as a second language (ESL) assessment with the UMSL ESL office. Based upon this assessment students may be required to complete recommended ESL courses before enrolling in nursing courses.

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University of Missouri - St. Louis

## College of Optometry

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### **College of Optometry Home Page**

This section contains an abbreviated version of the College of Optometry Bulletin. Some information is omitted.

For the most complete and accurate information regarding the Optometry program at UM-St Louis, please go to the [College of Optometry Home Page](#).

[The College of Optometry Bulletin \(PDF\)](#)

### **Administration and Faculty**

**Larry J. Davis**, Dean, Associate Professor

O.D., Indiana University; Residency, Contact Lenses, University of Missouri-St. Louis

**Gerald A. Franzel**, Associate Dean for the Division of Continuing Education, Associate Clinical Professor, O.D., University of Houston

**Ralph P. Garzia**, Assistant Dean for Clinical Programs; Associate Professor

O.D., Residency, Pediatric Optometry, Pennsylvania College of Optometry

**Vinita A. Henry**, Director, Residency Programs, Co-Chief Contact Lens Service and Program Coordinator for Residency, Contact Lenses; Clinical Professor

O.D., Residency, Contact Lenses, University of Missouri-St. Louis

**Raymond I. Myers**, Clinical Professor,

O.D., Indiana University

**Carol K. Peck**, Professor

Ph.D., Postdoctoral Fellow, University of California-Los Angeles

**William G. Bachman**, Associate Professor

M.S., University of Alabama-Birmingham, O.D., Southern College of Optometry

**Carl J. Bassi**, Director of Research and Graduate Studies, Associate Professor

Ph.D., Vanderbilt University, Postdoctoral Fellow, University of Southern California, Doheny Eye Institute

**Edward S. Bennett**, Director of Student Services; Co-Chief, Contact Lens Service; Associate Professor

M.S.Ed., O.D., Indiana University-Bloomington

**W. Howard McAlister**, Associate Professor

M.A., Webster College, M.P.H., University of Illinois at the Health Sciences Center - Chicago, O.D., The Ohio State University

**Leonard L. Naeger**, Adjunct Associate Professor

Ph.D., University of Florida; Residency, Hospital-Based Pharmacy, VA Medical Center, St. Louis

**Jeffrey L. Weaver**, Adjunct Associate Professor

M.S., The Ohio State University, M.B.A., Drury College; O.D., Pennsylvania College of Optometry; Residency, Family Practice, The Ohio State University

**Timothy A. Wingert**, Associate Professor, Chief of Third-year Primary Care Service

O.D., Illinois College of Optometry

**Kathleen Boland**, Assistant Clinical Professor

O.D., University of Missouri-St. Louis

**Lee J. Browning**, Adjunct Assistant Professor

O.D., University of Missouri-St. Louis, Residency, Northeastern State University, Tahlequah, OK

**Brian Brunig**, Adjunct Assistant Professor

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**John Crane**, Assistant Clinical Professor

O.D., University of Missouri-St. Louis

**James A. DeClue**, Assistant Clinical Professor

O.D., Illinois College of Optometry

**Julie Ott DeKinder**, Assistant Clinical Professor

O.D., Northeastern State University; Residency, Cornea and Contact Lens, University of Missouri-St. Louis

**Aaron S. Franzel**, Assistant Clinical Professor, Chief Pediatric/Binocular Vision Service, Pediatrics  
O.D., University of Missouri-St. Louis

**Christine Garhart**, Assistant Teaching Professor  
D.V.M., Ph.D., University of Missouri-Columbia, Case Western Reserve University

**Alexander J. Harris**, Assistant Clinical Professor, Director of Externship Programs and Minority Affairs Advisor  
M.A., Washington University, O.D., University of Missouri-St. Louis

**Beth A. Henderson**, Adjunct Assistant Professor  
O.D., The Ohio State University

**Edward Jarka**, Center Coordinator, Assistant Clinical Professor  
O.D., Illinois College of Optometry; M.S., Western Illinois University

**Vivian Kloke**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

**Linda Marks**, Assistant Clinical Professor  
O.D., Ferris State University: Residency, Pediatric Optometry, University of Missouri-St. Louis

**Eric Polk**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

**Mary Beth Rhomberg**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

**Venverloh, Joseph**, Adjunct Assistant Professor  
O.D., University of Houston, M.S. University of Houston

**Stephen Viola**, Adjunct Assistant Professor  
Ph.D., Indiana State University

**Gary Vogel**, Adjunct Assistant Professor  
O.D., Ohio State University

**Erwin Wong**, Assistant Professor  
O.D., Southern California College of Optometry; Ph.D., University of Houston Postdoctoral Fellow, University of California, Berkeley, and Washington University

**Deborah Iadevito**, Specialist  
M.Ed., University of Missouri-St. Louis

**Maureen McCarthy**, Specialist  
M.Ed., University of Missouri-St. Louis

### Off-Campus Adjunct Faculty

**Joseph H. Maino**, Adjunct Professor  
O.D., Illinois College of Optometry; Residency, Rehabilitative Optometry, VA Medical Center, Kansas City

**Debbie L. Hettler**, Adjunct Associate Professor  
O.D., The Ohio State University, M.P.H., University of Illinois

**Sean Mulqueeny**, Adjunct Associate Professor  
O.D., University of Missouri-St. Louis

**Stuart Richer**, Adjunct Associate Professor  
O.D., University of California

**Levent Akduman**, Adjunct Assistant Professor  
M.D., Hacı Hepe, University of Turkey

**Ronald Bateman**, Adjunct Assistant Professor  
O.D., Indiana University-Bloomington

**P. Douglas Becherer**, Adjunct Assistant Professor  
O.D., Southern College of Optometry

**Robert Brusatti**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

**Carmen Castellano**, Adjunct Assistant Professor  
O.D., Illinois College of Optometry

**Walter Choate**, Adjunct Assistant Professor  
O.D., Southern College of Optometry

**Diane Curry**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

**Cheryl Davidson**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

**Michelle Dent**, Adjunct Assistant Professor  
O.D., V.A. Wichita, Kansas

**Gail B. Doell**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis

**Sarah Dougherty**, Adjunct Assistant Professor  
O.D., Indiana University School of Optometry

**John Galanis**, Adjunct Assistant Professor

M.D., St. Louis University  
**John M. Garber**, Adjunct Assistant Professor  
O.D., Southern College of Optometry  
**Sarah Gerdes**, Adjunct Assistant Professor  
O.D., Ohio State University  
**N. Rex Ghormley**, Adjunct Assistant Professor  
O.D., Southern California College of Optometry  
**Steven J. Grondalski**, Adjunct Assistant Professor  
O.D., Pennsylvania College of Optometry  
**Timothy Harkins**, Adjunct Assistant Professor  
O.D., Southern California College of Optometry  
**Steven Hill**, Adjunct Assistant Professor  
O.D., Illinois College of Optometry  
**James Hoekel**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis  
**Timothy Hug**, Adjunct Assistant Professor  
O.D., University of Houston  
**Jeffrey Kempf**, Adjunct Assistant Professor  
O.D., Southern College of Optometry  
**Deborah Kerber**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis  
**Harry Knopf**, Adjunct Assistant Professor  
M.D., Harvard Medical School  
**Robert A. Koetting**, Adjunct Assistant Professor  
O.D., Southern College of Optometry  
**Linda Lucas**, Adjunct Assistant Professor  
O.D., Indiana University School of Optometry  
**John A. McGreal, Jr.**, Adjunct Assistant Professor  
O.D., Pennsylvania College of Optometry  
**Daniel Osborn**, Adjunct Assistant Professor  
M.D., Indiana University School of Medicine  
**David Pierce**, Adjunct Assistant Professor  
O.D., Southern College of Optometry  
**Patrick Pirotte**, Adjunct Assistant Professor  
O.D., Southern California College of Optometry  
**Thomas I. Porter**, Adjunct Assistant Professor  
O.D., Southern College of Optometry  
**Paul Resler**, Adjunct Assistant Professor  
O.D., Illinois College of Optometry  
**Byron A. Santos**, Adjunct Assistant Professor  
M.D., University of San Carlos  
**Frederick Satkowiak**, Adjunct Assistant Professor  
O.D., Indiana University  
**Carol Scott**, Adjunct Assistant Professor  
O.D., Southern College of Optometry  
**Don Simpson**, Adjunct Assistant Professor  
O.D., Indiana University  
**Craig Sorce**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis  
**Joe Sullivan**, Adjunct Assistant Professor  
O.D., Illinois College of Optometry  
**Scott Tomasino**, Adjunct Assistant Professor  
O.D., Illinois College of Optometry  
**Christine Tran**, Adjunct Assistant Professor  
O.D., Southern College of Optometry  
**Claude Valenti**, Adjunct Assistant Professor  
O.D. University of Pennsylvania  
**Paul Whitten**, Adjunct Assistant Professor  
O.D., University of Missouri-St. Louis  
**Carrie Williams**, Adjunct Assistant Professor  
O.D., Southern College of Optometry  
**Richard Wilson**, Adjunct Assistant Professor  
O.D., University of Missouri St. Louis  
**Melissa Wisniewski**, Adjunct Assistant Professor  
O.D., Pennsylvania College of Optometry

**Jack Yager**, Adjunct Assistant Professor

O.D., Ohio State University

**Dwayne Young**, Adjunct Assistant Professor

O.D., Indiana University

### **General Information**

The UM-St. Louis College of Optometry enrolled its first class in 1980, graduating 32 students in May 1984. The college is located on the South Campus complex of the University of Missouri-St Louis at 7800 Natural Bridge Road. A five-story building houses the college's classrooms, laboratories, research facilities, administrative offices, library, and the Center for Eye Care campus facility (the University Eye Center).

The College of Optometry is a member of the Association of Schools and Colleges of Optometry and is accredited by the Accreditation Council on Optometry Education (ACOE).

### **The Doctor of Optometry (O.D.) Degree**

A student who satisfactorily completes all four years of the professional curriculum will be eligible to receive the doctor of optometry degree. The training and clinical experience optometry students receive at UM-St. Louis in the diagnosis, treatment, and management of ocular disease is excellent and qualifies UM-St. Louis graduates to practice optometry in any state in the nation.

### **Center for Eye Care**

The Center for Eye Care provides a patient care learning environment for third-year and fourth-year optometric students and residents. The Center for Eye Care includes four locations: the University Eye Center on the UM-St. Louis South Campus, the Optometric Center in the Central West End of St. Louis, the East St. Louis Eye Center, and the Harvester Eye Center in St. Charles, MO. These and other affiliated health centers in the St. Louis area provide an instructional setting where student interns are exposed to a wide variety of patients under the direct supervision of full-time or part-time clinical faculty. Equally important is that these Centers provide exemplary, comprehensive and state-of-the-art optometric care to their patients.

The Centers provide a full range of optometric services to patients including primary eye care, contact lens, pediatric/binocular vision, low vision, and eye health management.

Situated in Missouri's largest metropolitan area, the college enjoys the city's strong community and professional support. The urban setting offers many opportunities for outreach programs, expanding the scope of optometric education and making available highly diverse programs of clinical training. Another asset of the College is the location of the national headquarters of the American Optometric Association, approximately twelve miles from the campus.

The curriculum leading to the doctor of optometry degree is a four-year, full-time program of study. The first year of the professional curriculum emphasizes optical and biomedical sciences and introduces students to optics of the visual system. The second year covers vision science and instruction in eye examination techniques. The third year emphasizes patient care and introduces the student to specialty areas within optometry, such as contact lenses, pediatrics and geriatric vision care, binocular vision and vision therapy, and low vision rehabilitation. The second and third years also include course work and clinical instruction in ocular disease and pharmacology. The fourth year includes six rotations through the externship program, giving the student added experience in the management of eye diseases, as well as valuable experience in other optometric clinical specialties.

### **Fourth-Year Externship Program**

In addition to the patient care experiences available through the University Eye Center, Optometric Center, the East St. Louis Center, and the Harvester Eye Center, the College of Optometry also has a diverse Externship Program. Students must receive approval from the faculty and the Director of Externships for assignments to each Externship site. This program allows fourth-year students to spend a portion of their final year of training in a variety of patient care environments (i.e., military bases, Veterans Administration Hospitals, Indian Health Services Hospitals, various specialty practices and private practices).

These eight (8) week externships are selected and scheduled according to the individual student's interest, needs and future practice intentions. In this program, students leave the academic environment and begin working with selected practicing optometrists while continuing to be monitored by the Centers through weekly reports of all patient experiences and activities. The externship rotations are set up to give students exposure in the following areas:

Pediatric/Binocular Vision Patient Care

Contact Lens Patient

Low Vision Patient

General (Primary Optometric) Patient Care  
 Ophthalmic Lasers  
 Ocular Disease  
 Geriatric Patient Care  
 Ophthalmic Surgical Patient Care  
 Ophthalmic Sports Patient Care  
 Pathology and Treatment Patient Care  
 Optometric Rehabilitation Patient Care

Externships Rotations are located at a variety of domestic and international sites.

### **Student Organizations & Activities**

All optometry students enrolled in the University of Missouri-St. Louis College of Optometry are eligible for membership in the various student optometric associations, including AOSA affiliated with the American Optometric Association and MOSA which is affiliated with the Missouri Optometric Association. Through these organizations, and many others, students become involved in local and national optometric activities. The organizations provide an environment for the cultivation of professional leadership skills, and members have organized and participated in a variety of community service activities, including community health screenings and vision care to residents of nursing homes, convalescent hospitals, and mental institutions. Furthermore, optometry students have formed local chapters of SVOSH (Student Volunteer Optometric Services to Humanity), an international organization of optometrists providing free vision care to people in impoverished nations, and the NOSA (National Optometric Student Association), which strives to recruit minority students into optometry and encourages retention of minority students.

In addition to the many activities through the College of Optometry, optometry students are able to take advantage of all the activities provided by the university to the entire university community. These include intramural sports, movies and cultural activities, a modern, fully-equipped gymnasium, and access to many social and cultural opportunities in St. Louis at reduced cost.

### **"3+4" Scholars Programs**

The University of Missouri-St. Louis offers highly qualified students the opportunity to complete the doctor of optometry degree within seven years total, rather than the typical eight years. Students qualify for this program by scoring 26 or higher on the ACT, achieving exceptional performance in high school, and gaining admission to the Pierre Laclède Honors College at UM-St. Louis.

Formal entry into the 3+4 program requires the student to apply to the College of Optometry, usually during the junior year in college. They may also pursue an undergraduate degree in biology, chemistry, physics or liberal studies. These degrees are through the College of Arts and Sciences in coordination with the Pierre Laclède Honors College. If a student wishes to pursue an undergraduate degree, he or she must meet the degree requirements for the specific program.

Students work with their undergraduate advisors, as well as the academic advisor in optometry, to insure that all prerequisite courses are taken prior to the Optometry Admission Test (OAT). The OAT must be taken before the interview for admission to the College of Optometry.

### **Admission Requirements**

#### **Semester:**

**English** - 2

**Biology** (including laboratory)\* - 3

**Physics** (including laboratory) - 2

**Chemistry\*\***

**General** (including laboratory) - 2

**Organic** (including laboratory) - 1

**Mathematics \*\* \***

**Calculus** - 1

**Statistics** - 1

**Psychology** - 2

**Liberal Arts** - 2

#### **Quarter :**

**English** - 3+

**Biology** (including laboratory)\* - 4

**Physics** (including laboratory) - 3

**Chemistry\*\***

**General** (including laboratory) - 3

**Organic** (including laboratory) - 2

**Mathematics \*\* \*****Calculus - 1****Statistics - 1****Psychology - 2****Liberal Arts - 2+**

\*One semester (or one quarter) of Microbiology with laboratory is a requirement. One semester of Anatomy or Physiology is recommended.

+Courses may be taken and accepted for prerequisite course work AP (Advanced Placement) without a grade if the student receives a 320 or higher on the Reading Comprehension section of the OAT examination (see below, Admission Test and has a GPA of 3.0.

\*\*One semester of Biochemistry, Cell Biology or Human/Comparative Physiology is recommended.

\*\*\*Trigonometry as a prerequisite course for Calculus must be completed either in high school (official high school transcripts required as proof) or college.

All courses used to satisfy the admission requirements must have been taken at a fully accredited institution. Specific prerequisite courses must be taken for a letter grade; they cannot be taken as an audit or on a pass/fail or satisfactory/unsatisfactory basis. Applicants must have completed 90 semester or 135 quarter hours (the equivalent of three years of college education) before the start of classes. In order to process financial aid awards it is strongly recommended that students complete old prerequisite courses the spring prior to admission. The applicant cannot apply more than 60 semester hours or 90 quarter hours which were earned at a two-year institution toward the credit-hour requirement. Applicants holding a bachelor's degree will be given preference over applicants with similar academic credentials who do not have a degree. Applicants to the college come from a variety of undergraduate backgrounds, such as biological sciences, chemistry, psychology, education, and business.

**Admission Test**

Students should work with their undergraduate advisors as well as their academic advisor in optometry, to insure that all pre-requisite courses are taken prior to taking the Optometry Admission Test (OAT), which is required prior to being offered an interview for consideration for admission to the College of Optometry.

All applicants are required to take the Optometry Admission Test (OAT). The OAT is now offered through computer sites. As the computerized version may be scheduled at any time, please plan to take the OAT by June of the year you plan to apply in order to be considered for early admission. Official test scores are acceptable for up to three years from the testing date.

Applicants are encouraged to take the examination by June of the year of application to the College of Optometry. If applicants wish to enhance their scores, the examination may be repeated. For an OAT application packet and additional information, contact:

Optometry Admission Testing Program  
211 East Chicago Ave.  
Suite 1846  
Chicago, IL 60611  
(312) 440-2693  
<http://www.opted.org>

**Application Procedures**

The Admissions Committee begins to process applications on August 1 for the class entering the following year. An applicant's file will be considered complete and ready for consideration by the Admission Committee when the following material has been received:

1. Application.
2. \$50.00 non-refundable application fee.
3. Official high school and college transcripts, followed by updated transcripts as they become available. (Exception: graduates of international programs see deadline requirement for all transcripts).
4. Official Optometry Admission Test (OAT) results.
5. A composite evaluation prepared by the preprofessional advisory committee at the educational institution the applicant is attending. Those applicants not currently attending college or who are at an institution that does not offer a committee evaluation will be required to submit four letters of recommendation.

Official transcripts must be mailed from every college attended, regardless of whether or not credit was earned.

Letters of recommendation must be mailed directly to the college by the originator. It is the applicant's

responsibility to ensure all application materials are received in the office of Student Services by February 15 (International students: transcripts by December 15 year prior) to be considered for admission to the class entering in August of the same year. Facsimile (faxed) application material will be not accepted or acknowledged. Application material received after February 15 will not be evaluated for the class entering in August of the same year. To be considered for merit scholarships, there is an early enrollment deadline. **All materials must be received by December 15 in order to be considered for the early application deadline.** Applications received after that time will still be considered for admission but not additional awards, e.g. merit scholarships, state seat contracts.

All correspondence, inquiries and application material should be addressed to:

UM-St. Louis College of Optometry  
Office of Student Services  
317 Marillac Hall  
One University Blvd.  
St. Louis, MO 63121-4400

Applications may also be submitted online by accessing an application at the [College of Optometry Home Page](#). Click on "applying to the college."

### **International Students**

International students whose native language is not English and who have spent less than two of the last years in an English-speaking country are required to submit scores from an internationally accepted standardized examination before a decision is made on admission.

To complete their credential file, applicants are required to furnish original and official transcripts **before December 15th the year prior to admission** from each school and college attended both in this country and abroad. The Educational Credentials Evaluators, Inc. or the World Education Services must evaluate **all foreign school and college transcripts** and their evaluation submitted as part of the application requirement. For information contact:

Educational Credentials Evaluators, Inc.  
Post Office Box 514070  
Milwaukee, WI 53203-3470  
(414) 289-3400  
Fax: (414) 289-3411  
E-mail: [eval@ece.org](mailto:eval@ece.org)  
Web site: <http://www.ece.org>

World Education Services  
P.O. Box 5087  
New York, N.Y. 10274-5087  
(212) 966-6311  
Fax: (212) 939-6100  
Email: [info@wes.org](mailto:info@wes.org)

The University of Missouri-St. Louis maintains an Office of International Student Services to assist applicants who have been offered admission. All new international students are required to attend a formal orientation program before matriculation. For more information, contact:

University of Missouri-St. Louis  
Office of International Student Services  
One University Blvd.  
St. Louis, MO 63121-4499  
(314) 516-5229

### **Selection Procedures**

Applications are reviewed beginning in August with interviews scheduled and initiated starting in October. The college uses a 'rolling admissions' process that allows qualified applicants to be admitted on an ongoing basis until the class is filled. Therefore, applicants are encouraged to apply as early as possible to ensure full consideration for admission.

The Admissions Committee has the responsibility to review and evaluate all applicants and select the best qualified candidates. The committee considers: an applicant's overall grade point average, the grade point achieved in the sciences, any grade trends over the years in college, and the scores on the OAT. Concurrently, candidates are evaluated on less quantitative measures such as extracurricular activities and interests, related or unrelated work experience, written narrative, and letters of recommendation.

Those applicants whom the committee feels to be most competitive will be invited for an on-campus interview. The on-campus interview facilitates an assessment of the applicant's communication skills, interests, motivation, and personal characteristics. In addition, the on-campus interview allows the applicant to tour the facilities, meet with currently enrolled students, present questions regarding financial aid and housing, and learn more about the University of Missouri-St. Louis and the College of Optometry. From this group of interviewed applicants, the entering class of approximately 44 students will be selected.

The policies of the University of Missouri-St. Louis and the College of Optometry comply with the provisions under those laws that forbid discrimination on the basis of race, color, religion, sex, sexual orientation, national origin, age, disability or status as a Vietnam era veteran.

#### **Admission Process**

Notices of acceptance may be received as late as June of the year in which the students enter the program. If acceptance to the class is conditional, the terms of the condition must be completed prior to matriculation. Applicants who have indicated that degree requirements will be completed prior to matriculation, and who have been selected for admission, may receive a conditional offer of acceptance contingent upon completion of the degree.

Students offered admission have 15 days from the date on the offer of admission letter to make a required \$200 acceptance deposit. The \$200 deposit will be credited toward tuition when the student matriculates. The deposit is considered a non-refundable administration fee should the student not matriculate.

A certain number of applicants are placed on an alternate list. If an applicant who has been offered admission declines the offer, their position will be allocated to the next individual on the alternate list.

Notification of denial is sent by mail. If an applicant is interested in reapplying, they should notify the College of Optometry's Office of Student Services.

#### **Financial Aid**

The University of Missouri-St. Louis maintains an Office of Student Financial Aid to assist students with the cost of their education.

Financial assistance is available in the form of grants, loans, scholarships, and work-study. Funds for these programs are available from federal, private, state, and institutional resources. To apply for financial aid, students must complete a Free Application for Federal Student Aid (FAFSA). Preference will be given to those students who have completed the **FAFSA by April 1**. Preference means that the Student Financial Aid Office will begin awarding FWS (Federal College Work-Study), Federal SEOG (Federal Supplemental Educational Opportunity Grant) and Federal Perkins Loan funds. A completed financial aid application means that the Financial Aid Office has received an official Student Aid Report from the Federal Processing Center. Information about Federal loan programs and FAFSA are available at [www.fafsa.ed.gov](http://www.fafsa.ed.gov)

The Student Financial Aid Office maintains a Web site at [www.umsl.edu/services/finaid](http://www.umsl.edu/services/finaid), where students will find useful information along with the ability to contact the office electronically via e-mail. Also included is a scholarship directory that is updated biweekly.

To be considered for all university scholarships offered through the Financial Aid Office, a student must be accepted for admission. A scholarship application must be completed to apply for scholarships awarded through Student Financial Aid. All incoming students should complete the Incoming Freshman Scholarship Application. Continuing students should complete the Continuing Student Scholarship Application.

Many state optometric associations and their auxiliaries offer scholarships and grants. Application is generally made directly to the state association or auxiliary and selection is generally made on the basis of state residence and other criteria. Information may be obtained by writing to the various state optometric associations and/or auxiliaries.

The College of Optometry will provide additional information about scholarships and the college' Handbook of Loans, Scholarships, Grants, and Awards to applicants after being admitted. Many of the College's scholarships are listed on the [College Website](#).

#### **Fees**

Detailed information regarding current fees and residency regulations is furnished in the *Schedule of Courses*, a newspaper schedule distributed before each semester registration, available at the Registrar's Office in the Millennium Student Center. Students should be aware that fees shown are current as this publication goes to press, but fee changes may occur while this *Bulletin* is still in use.

The university reserves the right to change fees and other charges at any time without advance notice.

#### **Education Fees**

All students enrolled in the University must pay educational fees based on either the schedule for Missouri

residents or the schedule for non-residents. All optometry students will be required to pay the non-resident educational fee if they do not meet the University of Missouri residency requirements at the time of enrollment.

	<b>Resident</b>	<b>Non-resident</b>
<b>Summer 2007*</b>	\$4,327.20	\$8,340.50
<b>Fall 2007</b>	8,654.40	16,681.60
<b>Winter 2008</b>	8,654.40	16,681.60

The Educational Fees plateau is 16.0 credit hours. Any student enrolled for less than 16.0 credit hours will be charged per credit hour at \$540.90. Nonresidents pay an additional non resident fee of \$1,042.60 per credit hour.

**\*A Summer Session is required between the third and fourth professional year.**

#### **Other Required Fees**

All students are required to pay the following fees each semester: Information Technology Fee is \$11.70 per credit hour (no maximum); Student Facility, Activity, and Health Fee \$38.83 for the first credit hour during the summer and \$45.83 for the first credit hour during the Fall and Winter/Spring semester. Additional credit hours (up to the prescribed maximums) are assessed at the rate of an additional + \$33.83 per credit hour. A maximum 6 credit hours for Summer and 12 credit hours for the Fall and Winter/Spring.

#### **Parking Fee**

All vehicles parked on campus require a parking permit. It is the responsibility of the student to be aware of the parking policies and procedures while using the lots at the University of Missouri St. Louis. The College of Optometry cannot be responsible for violations from students who do not purchase parking permits or adhere to the campus policies and procedures.

The Parking fee \$18.00 per credit hour for all semesters (\$288.00 for 16 or more credit hours). All fourth year students who are away on externship rotation must pay a minimum of \$18.00 per semester for parking.

#### **Student Health Insurance (optional)**

An Accident and Sickness Insurance plan is available to students and their dependents. Information concerning premiums and coverage is available upon request from [University Health Services](#) or call (314) 516-5671. For students registered at UM-St. Louis College of Optometry, health insurance is available through the [American Optometric Student Association](#).

#### **\* Nonresident Students**

Optometry students who do not meet the residency requirements must pay the nonresident educational fee according to the schedule above. A definition of "residency" is outlined in *Tuition and Residency Rules*, available in the cashier's office. (314-516-5151) Students are responsible for registering under the proper residence and paying the proper educational fees.

Currently, twelve nonresident positions for all four years are allocated by state reciprocal agreements for residents of Kansas. Individuals who are admitted under these agreements will pay reduced non-resident fees. For additional information, contact:

Kansas Board of Regents  
 Kansas Optometry Service Scholarship  
 1000 S.W. Jackson St., Suite 520  
 Topeka, KS 66612-1368  
 (785) 296-3518.

The College of Optometry currently has a State contract agreement for residents of Nebraska. This contract permits the College of Optometry to admit one eligible Nebraska resident in each entering class to receive the award. For detailed information about the contract and to be certified as a bona fide Nebraska resident, contact:

Dr. Donal Burns  
 University of Nebraska  
 3835 Holdrege  
 Lincoln, NE 68583  
 (402) 472-7115

#### **Four-Year Professional Degree (O.D.) Curriculum**

##### **Grades**

All courses taken for credit in the professional program must be passed with a "C-" or better in order for a student to qualify for graduation. The College of Optometry does not recognize a "D" grade for courses taken for degree credit; and for a student enrolled in a patient care course. Therefore, any grade lower than a "C-" will be recorded as an "F" and have "0" grade points. Furthermore, in order to qualify for graduation, a student must be in good academic standing and the cumulative professional GPA must be 2.5 or higher. Beginning in May 2003, students must submit evidence to the Office of Student Services that they have taken the 3 part NBEO examinations prior to graduation. Such evidence may include a copy of the score report received from NBEO.

To assure graduating at the end of a specific semester, all work for that semester and any delayed grades from previous semesters must be completed with the grades sent to the Office of Student Services no later than the official date for submission of final semester grades.

#### **Time limitations**

All of the required courses during the first six (6) semesters of first course enrollment and all required courses for the O.D. degree must be completed within six (6) years after the first course enrollment.

### **Graduate Studies**

#### **Physiological Optics (Vision Science)**

Vision science is a multidisciplinary area concerned with the study of normal and anomalous vision. The goal of this program is to train the next generation of researchers in clinical and basic vision science, to conduct research, and to educate faculty for schools and colleges of optometry. Students will be required to integrate basic skills in vision science with focal studies in an area of research emphasis.

This program will emphasize research aimed at new treatments and cures for vision disorders, as well as research in basic mechanisms of visual functions. The College of Optometry offers both an M.S. degree and a Ph.D. degree. Students may apply to the Graduate School for admission to either the M.S. or the Ph.D. program.

#### **Admission Requirements**

Students must have the appropriate background for graduate training in physiological optics and appropriate undergraduate courses for their anticipated research emphasis. Applicants must have a bachelor's degree from an accredited college or university within the United States or from an equivalent institution outside the United States. To be admitted as regular graduate students, applicants must have a grade point average of at least 3.0 in their overall undergraduate work, in their undergraduate major, and in any post baccalaureate academic work. Students must arrange for transcripts to be submitted from all postsecondary academic work and to have at least three letters of recommendation sent by faculty members at previously attended colleges and universities. Students must also submit GRE scores (verbal, quantitative, and analytic). Applicants to the M.S. program must have combined scores on the verbal and quantitative sections of at least 1000; applicants to the Ph.D. program must have combined scores of at least 1100. In addition, students from countries where English is not a primary language must submit TOEFL scores of 550 (paper based), 213 (computer based), or 80 (internet based) or better. All materials and scores must be submitted by March 1 if an applicant wishes to be considered for financial assistance for the Fall semester. Early applications are encouraged.

#### **Master of Science in Physiological Optics**

##### **Degree Requirements**

The M.S. degree requires 30 semester hours of course work, including the core courses. At least 24 of these hours will normally be taken from courses offered by the College of Optometry, with no more than 10 of these in PhyOpt 6490, Graduate Research in Physiological Optics. Each M.S. student will be required to teach at least two semesters in areas determined by the Graduate Committee in Physiological Optics.

The **core courses** for this program are:

**PhyOpt 6400**, Sensory Processes and Perception

**PhyOpt 6401**, Visual Optics

**PhyOpt 6402**, Ocular Anatomy and Physiology

**PhyOpt 6403**, Psychophysical Methods and Experimental Design

**PhyOpt 6404**, Sensory Neuroscience

Special Topics, Individual Studies, and Advanced Topics courses in Physiological Optics are also offered.

Each M.S. student must also complete a thesis based on research conducted during the program. The thesis must be approved by a committee of at least three members of the graduate faculty, at least two of whom must be from the graduate faculty in physiological optics.

#### **Ph.D. in Physiological Optics**

### **Degree Requirements**

The doctoral degree requires 60 semester hours of course work, including the core courses. Each Ph.D. student will also be required to demonstrate proficiency in a foreign language, computer language, advanced statistical methods, or another acceptable tool skill. The tool skill and level of proficiency must be selected in advance in consultation with the Graduate Committee in Physiological Optics. Students will be required to teach at least two semesters in areas determined by the Graduate Committee in Physiological Optics.

Written qualifying examinations will be offered each semester. Students must declare their intent to take the examinations at least one month prior to the beginning of that semester or summer session. Full-time students must attempt qualifying examinations before beginning their third year of study. Students must declare their intent to take the examinations at least one month prior to the beginning of that semester or summer session.

The preparation of the dissertation will be supervised by a dissertation committee which will be appointed by the Graduate Dean upon the recommendation of the Director of Graduate Programs in the College of Optometry. Input from the student's advisor will be solicited by the Director prior to finalization of the recommendation by vote of the Graduate Faculty. An oral examination of the written dissertation proposal will be conducted by the Committee. A public oral defense of the completed written dissertation is also required.

The **core courses** for this program are:

**PhyOpt 6400**, Sensory Processes and Perception

**PhyOpt 6401**, Visual Optics

**PhyOpt 6402**, Ocular Anatomy and Physiology

**PhyOpt 6403**, Psychophysical Methods and Experimental Design

**PhyOpt 6404**, Sensory Neuroscience

Special Topics, Individual Studies, and Advanced Topics courses in Physiological Optics are also offered.

### **Continuing Education**

The College of Optometry offers continuing education programs for optometrists throughout the Midwest region as well as nationwide. Courses on management of ocular diseases, ocular anomalies, and visual skills are held on a frequent basis. In addition to College of Optometry faculty, optometric specialists, medical educators, and researchers have input into course development as well as participation in course presentations. All CE courses offered by the school are accepted by those states requiring continuing education credit for relicensure.

Continuing Education course information may be obtained by contacting:

University of Missouri-St. Louis College of Optometry  
Office of Continuing Education  
One University Blvd.  
St. Louis, MO 63121-4499  
(314) 516-5615

### **Career Outlook**

#### **Doctor of Optometry Degree**

Doctors of optometry are independent primary health care providers who examine, diagnose, treat and manage diseases and disorders of the visual system, the eye and associated structures as well as diagnose related systemic conditions. Optometrists examine the internal and external structure of the eyes to diagnose eye diseases like glaucoma, cataracts and retinal disorders; systemic diseases like hypertension and diabetes; and vision conditions like nearsightedness, farsightedness, astigmatism and presbyopia. Optometrists also do testing to determine the patient's ability to focus and coordinate the eyes, and to judge depth and see colors accurately. They prescribe eyeglasses and contact lenses, low vision aids, vision therapy and medicines to treat eye diseases.

As primary eye care providers, optometrists are an integral part of the health care team and an entry point into the health care system. They are skilled in the co-management of care that affects the eye health and vision of their patients and an excellent source of referral to other health care professionals.

The optometrist has completed pre-professional undergraduate education in a college or university and four years of professional education at a college of optometry, leading to the doctor of optometry (O.D.) degree. Some optometrists complete a residency.

The scope of optometry practice requires an understanding of the development of vision from infancy through adulthood, and the therapeutic and rehabilitative methods required to care for the problems of vision from infancy through the declining years.

Optometry is the largest eye care profession and one of the largest independent health care professions in the United States. Currently, some 30,000 doctors of optometry practice in America. They are widely distributed

across the nation, practicing in more than 7,100 different municipalities. In more than 4,300 of these communities, they are the only primary care provider. As such, doctors of optometry provide the major portion of primary eye care services in the United States.

Studies have indicated that a ratio of one practicing doctor of optometry to every 7,000 people (a ratio of 14.3 practicing doctors of optometry per 100,000 population) is a reasonable average for the United States. Despite recent growth in the profession, few states meet this criteria.

As our society becomes more technically oriented, vision requirements become more exacting. The number of persons needing professional help for reading and other near-point visual tasks, including both older citizens and school children, is steadily growing. Increased demands for vision care result not only from population growth but also from increased understanding of how good vision relates to industrial production, student achievement, adjustments to aging, and other areas crucial to modern society.

The patients whom the practicing doctors of optometry treats may have varied and challenging needs. On any given day, an optometrist might be involved in restoring vision to a partially sighted patient; fitting glasses for a child whose vision problem is affecting academic achievement; treating an eye infection with antibiotics; improving the function of a patient's eyes through vision training; helping an elderly patient in a nursing home cope with changing vision through critical eye health education; and performing comprehensive eye examinations for those who need glasses or contact lenses to correct astigmatism, nearsightedness, and numerous other vision problems.

The practice of optometry offers independence, flexibility, and diversity. Doctors of optometry have a wide range of modes of practice. They may choose to practice in the inner cities, suburbs, and rural areas. Opportunities exist for solo practice, associateship, optometric or multidisciplinary group practice, government or military service, clinical or hospital practice, teaching, and research.

Optometry is a rewarding career, both economically and personally. Based on data from the Bureau of Labor Statistics and surveys by professional associations, optometry is one of the top 10 income-earning professions in the country.

#### **Graduate Degrees**

The master of science program provides research-oriented training beyond that offered in the professional program in optometry. Many optometry schools require that applicants for faculty positions hold an M.S. or Ph.D. degree as well as an O.D. degree. Additional employment possibilities for individuals with M.S. degrees are found in industry and in public and private research foundations.

The Ph.D. program prepares students as research professionals in vision science. Employment opportunities are available in college or university teaching and research, in research institutes, and in industry. Within academic optometry, individuals with both O.D. and Ph.D. degrees are in high demand as faculty members.

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# BULLETIN 2011

University of Missouri - St. Louis

# 2012

## UM-St. Louis/Washington University Joint Undergraduate Engineering Program

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**William J. Murphy**, Adjunct Professor  
D.Sc., Washington University

**John D. Corrigan**, Adjunct Professor and Advisor  
Ph.D., University of Missouri-Rolla

## General Information

The Joint Undergraduate Engineering Program of UM-St. Louis and Washington University was approved in 1993 by the University of Missouri and the Coordinating Board for Higher Education. The program is designed to offer course work beyond the pre-engineering courses at UM-St. Louis and the area community colleges. Pre-engineering and general education courses are offered at UM-St. Louis, and upper-level engineering courses are offered in the evenings and on Saturdays on the Washington University campus; this schedule permits students to co-op during the day at local engineering firms. Students will be admitted to the upper-division program only after they have completed an acceptable pre-engineering program. They can earn a bachelor of science in civil engineering (B.S.C.E.), a bachelor of science in electrical engineering (B.S.E.E.), or a bachelor of science in mechanical engineering (B.S.M.E.).

The B.S.C.E., the B.S.E.E., and the B.S.M.E. are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700.

## Program Goal

The goal of the UMSL/WU Joint program is consistent with the mission of UM-St. Louis, which is to provide a high-quality education to enhance the occupational and professional careers of citizens in the entire region, including the minorities and economically disadvantaged population and to provide a well-trained, sophisticated work force for the St. Louis region. The partnership is an appropriate way for Washington University to share its campus, resources, and personnel with the citizens of Missouri.

## Degree Program Educational Objectives

### B.S. in Civil Engineering

The mission of the Civil Engineering Program is to provide the students with a high quality civil engineering education. So these students will have the ability to practice civil engineering in the areas of structural, transportation, environmental engineering and construction. We also make the students aware of the critical issues pertaining to the civil engineering profession and its impact on society. Graduates of the program will have:

- an ability to apply knowledge of basic scientific, mathematical and engineering principles to solve civil engineering problems in its four sub-disciplines,
- an ability to design and conduct experiments as well as to analyze data,
- an ability to conceive and complete a comprehensive design project in one of the sub-disciplines using design standards in the context of realistic constraints,
- a sound understanding of the issues pertaining to professional practice and societal implications thereof,
- the ability to contribute as team members and leaders in the workplace, as well as in the community,
- an ability to communicate effectively through oral, written, visual, and graphic media,
- an ability to function in multi-disciplinary engineering teams in the design of a major project,
- an understanding of the need for life-long learning, professional, and ethical responsibility,
- an awareness of regional and global opportunities and challenges, contemporary issues and professionalism through exposure to practicing civil engineers and,
- an ability to relate academic learning to practical experience so that they enhance each other.

### B.S. in Electrical Engineering

The mission of the Electrical Engineering program is to prepare graduates for a professional career in (a) traditional electrical engineering position or (b) other positions that require quantitative problem-solving skills and a working knowledge of modern electrical engineering. Graduates will be knowledgeable of and proficient in electrical circuits, computer systems, digital and linear electronics, electromagnetic engineering, signal analysis and electrical laboratory methods. Graduates will have:

- An ability to design and analyze advanced and complex systems in at least two of the following areas of specialization: Solid-state devices and circuits, Electrical power systems, Control components and systems, Communication and information systems and signals, Computer architecture, hardware, and

software, Electromagnetic engineering techniques;

This ability will include the integration of thoroughly mastered mathematics and science in solving engineering problems.

- A proficiency with experimental instrumentation and techniques spanning areas of electrical and electronic circuits, electrical energy systems, and digital or electronic or communication or control systems. This proficiency will include the ability to design and conduct experiments, as well as ability to analyze and interpret data.
- A proficiency in engineering design of a system, component, or process to meet desired needs.
- An ability to communicate, both orally and in writing, with special emphasis on technical writing.
- An ability to interact effectively with other people by providing experience in working with other students in teams as both a team leader and a team member.
- An understanding and appreciation of one's professional and ethical responsibility and historical and contemporary global and societal issues.
- A recognition of the need for and an ability to engage in life-long learning.

### **B.S. in Mechanical Engineering**

Mechanical engineers are concerned with the technologies of manufacturing, energy conversion, machine design, instrumentation and control of physical processes and the environment. The mission of this undergraduate program is to prepare students for professional practice with a solid, scientifically- grounded foundation in all four major stems of mechanical engineering: mechanisms and mechanical design, dynamics and control, fluid mechanics, and thermal science and materials science. The following objectives or goals are key focal points in the mechanical engineering program. Graduates will:

- apply fundamental scientific and engineering concepts involving dynamics and systems, material science, mechanics and solids and the thermal-fluid sciences in order to identify, formulate and solve a variety of mechanical engineering problems that would occur in industrial practice,
- design, modify, conduct, and analyze experiments in the areas of thermal-fluid sciences, solid mechanics, and dynamical systems such as would be appropriate for engineering applications,
- directly perform system, process and component selection in order to satisfy specific engineering-related needs through the application of mechanical design philosophy in engineering practice,
- communicate in oral and written presentations using graphic and/or visual media appropriate for an engineering business environment,
- operate productively in individual or multidisciplinary, team-oriented projects,
- be exposed to modern developments, products and tools as they relate to engineering practice in the workplace today,
- be exposed to practicing engineers and their jobs and be taught the importance of high ethical and professional standards,
- obtain the broad-based education necessary to understand the impact of engineering solutions in their global and societal contexts,
- recognize the need for, and obtain tools necessary to engage in, life-long learning to stay current in the industrial setting,
- be afforded opportunities to participate in cooperative education, internships, research experiences or international exchange programs in order to gain experience beyond the classroom.

### **Admission**

Admission to candidacy for these degrees is granted jointly by the University of Missouri-St. Louis and Washington University.

Normally admission is granted to persons who have completed the pre-engineering program with a minimum grade point average of 2.75 over all mathematics, chemistry, physics, and introductory engineering courses (statics and dynamics). Students with less than a 2.75 grade point average, but at least a C in all their science and math courses, may be admitted on a probationary basis. These students must pass an Engineering Math Workshop with a grade of B or better, and then pass JEMT 3170 Engineering Mathematics in the first year with a C- or better, in order to continue in the program.

### **Degree Requirements**

#### **Bachelor of Science in Civil Engineering**

#### **Bachelor of Science in Electrical Engineering**

#### **Bachelor of Science in Mechanical Engineering**

A program of 137 semester hours is required for the Bachelor of Science in Civil Engineering, a program of 127 semester hours is required for the Bachelor of Science in Electrical Engineering, and a program of 139 semester hours is required for the Bachelor of Science in Mechanical Engineering, as shown below:

All majors must complete the University General Education requirements, the Pre-Engineering Requirements and the Core Engineering Requirements. Except with special permission of the program faculty, to be eligible

to take the other upper-level engineering courses (those with course numbers starting with the letter "J"):

All students must first complete JEMT 3170, Engineering Mathematics, with a minimum grade of C-. Mechanical and Electrical Engineering majors must also complete JEE 2300, Introduction to Electrical Networks with a minimum grade of C-. Civil engineering majors must complete either JEE 2300, Introduction to Electrical Networks, or JME 3200 Thermodynamics, with a minimum grade of C-.

A minimum grade of C- is necessary to meet the prerequisite requirement for any course.

#### **Pre-Engineering Requirements**

**Math 1800**, Analytic Geometry/Calculus I  
**Math 1900**, Analytic Geometry/Calculus II  
**Math 2000**, Analytic Geometry/Calculus III  
**Math 2020**, Differential Equations  
**Chem 1111**, Introductory Chemistry I  
**Chem 1121**, Introductory Chemistry II  
**Physcs 2111**, Physics: Mechanics and Heat  
**Physcs 2112**, Physics: Electricity, Magnetism and Optics  
**Enginr 2310**, Statics  
**Enginr 2320**, Dynamics  
**Englsh 1100**, Composition

#### **Humanities and Social Sciences Electives**

The student's choice of humanities and social sciences electives must meet both the UM-St. Louis General Education Requirements and the Humanities and Social Sciences Requirements of the Joint Undergraduate Engineering Program. Check with your adviser for details. In particular:

- Three courses in the humanities and 3 courses in social sciences must be taken
- One of the social sciences must be a course in American history or government or in Missouri history or government
- One of the humanities or social science courses must be at the junior level or above
- The cultural diversity requirement must be fulfilled.
- Some courses that fulfill the humanities [H] or social sciences [SS] breath of study requirement do not count as Humanities and Social Sciences Electives; an example would be a statistics course taught in economics or psychology. See the Office of the Joint Undergraduate Engineering Program for a listing of courses that do not count as Humanities or Social Sciences Electives in this program, or check with your advisor.

#### **Engineering Core Requirements**

**JCS 1002**, Introduction to Computing Skills: MATLAB Skills  
**Cmp Sc 1250**, Introduction to Computing  
**JEMT 3170**, Engineering Mathematics  
**Englsh 3130**, Technical Writing  
**JME 3200**, Thermodynamics\*  
**JME 4310/JEE 4410**, Control Systems I\*  
**JEE 2300**, Introduction to Electrical Networks\*  
**JEE 2330**, Electrical and Electronic Circuits Laboratory \*  
 \*Required for electrical and mechanical engineering majors only.

#### **Civil Engineering Major Requirements**

**JCE 1451**, Engineering Graphics  
**JCE 2160**, Surveying  
**JCE 3410**, Structural Analysis  
**JCE 3420**, Structural Design  
**JCE 3520**, Water and Wastewater treatment  
**JCE 3760**, Open Channel Hydraulics  
**JCE 4190**, Soil Mechanics  
**JCE 4200**, Soil Exploration and Testing  
**JCE 4740**, Economic Decisions in Engineering  
**JCE 4760**, Site Planning and Engineering **or**  
**JCE 4670** Structural Design Projects **or**  
**JCE 4820**, Design of Water Quality Control Facilities  
**JCE 4840**, Probabilistic Methods in Civil Engineering Design  
**JCE 4990**, Senior Civil Engineering Seminar  
**JME 2410**, Mechanics of Deformable Bodies  
**JME 3360**, Material Science

**JCE 3360**, Civil Engineering Materials Lab  
**JME 3700**, Fluid Mechanics  
**JME 3721**, Fluid Mechanics Laboratory  
 Civil Engineering Electives  
**JME 3200**, Thermodynamics or  
**JEE 2300**, Introduction to Electrical Networks  
**JCE 3460**, Transportation Engineering  
**JCE 4600**, Transportation Planning  
**JCE 4640**, Foundation Engineering

#### **Electrical Engineering Major Requirements**

**JEMT 3260**, Probability and Statistics for Engineering  
**JEE 2320**, Introduction to Electronic Circuits  
**JEE 2600**, Introduction to Digital Logic and Computer Design  
**JEE 3300**, Engineering Electromagnetic Principles  
**JEE 3320**, Power, Energy, and Polyphase Circuits  
**JEE 3510**, Signals and Systems  
**JEE 4350**, Electrical Energy Laboratory  
**JEE 4650**, Digital Systems Laboratory  
**JEE 4980**, Electrical Engineering Design Projects  
 Electrical Engineering Electives 3000-4990

#### **Mechanical Engineering Major Requirements**

**JEMT 3260**, Probability and Statistics for Engineering  
**JME 1413**, Introduction to Engineering Design: CAD  
**JME 1414**, Introduction to Engineering Design: Project  
**JME 2410**, Mechanics of Deformable Bodies  
**JME 3210**, Energetics for Mechanical Engineers  
**JME 3221**, Mechanical Design and Machine Elements  
**JME 3250**, Materials Science  
**JME 3700**, Fluid Mechanics  
**JME 3710**, Principles of Heat Transfer  
**JME 3721**, Fluid Mechanics Laboratory  
**JME 3722**, Heat Transfer Laboratory  
**JME 4170**, Dynamic Response of Physical Systems  
**JME 4180**, Dynamic Response Laboratory  
**JME 4040**, Mechanical Engineering Design Project  
**JME 4041**, Current Topics in Mechanical Engineering Design  
 Mechanical Engineering Electives

#### **Graduation Requirements**

In addition to the requirements of the University of Missouri-St. Louis that apply to all candidates for undergraduate degrees, the student must earn a minimum campus grade point average of 2.0 and a minimum grade point average of 2.0 for all engineering courses attempted at the University of Missouri-St. Louis.

#### **Minor in Environmental Engineering Science**

A program of 18 semester hours is required to earn the minor in environmental engineering science. The minor is designed to provide formal recognition to recipients of bachelor's degrees in civil, electrical, or mechanical engineering that they have acquired the education necessary for entry-level careers as environmental professionals. They will also have a solid foundation to undertake graduate-level education in environmental engineering science.

Enrollment in all courses in the minor in environmental engineering science is limited to students who have been admitted to candidacy for the bachelor of science in civil engineering, the bachelor of science in electrical engineering, or the bachelor of science in mechanical engineering in the UM-St. Louis/ Washington University Joint Undergraduate Engineering Program. The minor may be awarded only to students who earn the bachelor of science in civil engineering, the bachelor of science in electrical engineering, or the bachelor of science in mechanical engineering in the UM-St. Louis/ Washington University Joint Undergraduate Engineering Program.

**JCHE 4430**, Environmental Engineering Chemistry  
**JCE 3520**, Environmental Engineering Science ( EE, ME majors) or  
**JCE 4750** Introduction to Urban Planning (CE majors)  
**JCE 4080**, Environmental Engineering Laboratory - Water/Soil or  
**JCE 4090**, Environmental Engineering Laboratory - Air  
**JCE 4820**, Design of Water Quality Control Facilities  
**JEP 4370**, Environmental Risk Assessment

**JEP 4610, Introduction to Environmental Law and Policy**

**Engineering Design and Engineering Science Requirements**

The number of semester hours assigned to each engineering course in the Joint Undergraduate Engineering Program is further divided into hours of engineering design, engineering science, and basic science content. Engineering topics is the sum of engineering science hours and engineering design hours. The following table shows the design hours and engineering science hours for courses in the engineering programs.

Each engineering student must complete a curriculum that contains at least 48 hours of engineering topics semester hours, including all courses: pre-engineering requirements, engineering core requirements, major requirements, and electives. Civil, electrical, and mechanical engineering majors should consult with their advisers to select electives at the 3000 and 4000 level that include sufficient engineering design and engineering science content to produce the required totals. Transfer courses from other institutions do not necessarily have the same engineering science and engineering design content as their equivalents in the UM-St. Louis/Washington University Joint Undergraduate Engineering Program. Students who include transfer courses in their curricula should consult with their advisers to be sure that these requirements are met.

**Fees**

Students register on the UM-St. Louis campus and pay UM-St. Louis fees plus an engineering fee for both pre-engineering and engineering courses. Limits on enrollments are determined by the availability of resources.

**Career Outlook**

Engineering is one of the few careers in which the bachelor's degree is a professional degree. Students earning a bachelor of science degree in one of the engineering disciplines are well qualified for entry-level engineering positions in a variety of businesses, industries, consulting firms, and government agencies. As society becomes increasingly dependent on technology, the outlook for all engineering disciplines becomes increasingly bright. Engineering careers typically rank at, or very near, the top of virtually any published rating of promising jobs for the 21st Century. Besides tackling challenging technical problems, roughly two-thirds of all engineers will have some level of management responsibility within ten years of receiving their bachelor's degrees. Many practicing engineers will eventually continue their education by pursuing graduate degrees on a part-time basis. Typical areas of graduate study include all advanced technical and scientific fields and management.

**UM-St. Louis/Washington University Joint Undergraduate Engineering Program Course Table  
For Further Information**

For information about enrolling in this program, please contact the UM-St. Louis/Washington University Joint Undergraduate Engineering Program at (314) 516-6800, or the Washington University School of Engineering and Applied Science at (314) 935-6100.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Study Abroad Programs

### [Center for International Studies Home Page](#)

#### **Study Abroad Programs**

The University of Missouri-St. Louis is committed to broadening students' understanding of different cultures and preparing them for the global community in which we live. One of the most successful ways of achieving this "global mindset" is to study overseas for a summer, semester, or year program. Spending time abroad as a student is an enriching experience both academically and personally, providing students with the opportunity to study within a different culture.

The Center for International Studies provides UM-St. Louis students with opportunities to study at over 80 different universities in more than 30 countries around the globe. Through individual advising at the center's Study Abroad Office, students can find the program best suited to their personal, academic, and career goals. Internship possibilities are also available for qualified students.

#### **Fees and Financial Aid**

The cost of the program depends on the services provided and the country and city of study. For most programs, participants continue to pay UM-St. Louis fees plus airfare, room and board, and spending money. Students are usually housed in dormitories or are assisted in finding apartments. In most cases, students are able to apply financial aid to a study abroad program. Study abroad scholarships are available for qualified applicants through the Center for International Studies.

#### **Application**

Generally, applications are due in mid-February for summer and fall semesters, and the end of September for winter semester. Some programs require application two semesters prior to participation. Students should plan to spend at least one or two months researching a program before applying.

Participant selection is based on academic achievement, faculty recommendations, approval of the proposed course of study via the department/divisional advisory process, and familiarity with or willingness to learn the foreign language of instruction. Most programs are designed for undergraduate students in their junior or senior years of study; however, a limited number of programs for freshmen, sophomores, and graduate students are available.

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# BULLETIN 2011

University of Missouri - St. Louis

# 2012

## ROTC

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**[Army ROTC Home Page](#)**  
**[Air Force ROTC Home Page](#)**

Students interested in Reserve Officer Training Corps programs may enroll in either the Army ROTC program at UM-St. Louis or the Air Force ROTC program sponsored at UM-St. Louis through Saint Louis University. These programs provide undergraduate and graduate students with the opportunity to combine academic study with a military officer training program.

For further information concerning the Army ROTC program, contact the Military Science Department, telephone 516-4872 or check out our [Website](#). For information on the Air Force ROTC program, contact the Aerospace Science Department at Saint Louis University, telephone 977-8227

### Army ROTC

The purpose of the Military Science Department is to develop young men and women into junior commissioned officers for positions of responsibility in the Army Reserve, Army National Guard, or Active Army.

#### Benefits

Army ROTC offers UM-St. Louis students:

- 1) A challenging, important, well-paid job at graduation in one of the many professional fields that the modern Army has to offer. Army officers serve in such fields as intelligence, military police, communications, engineering, transportation management, finance, combat arms, hospital administration, nursing, and research and development. Starting salary with allowances of an active duty second lieutenant is approximately \$33,000. Within four years he/she should be promoted to captain with a salary and allowances of nearly \$62,000. Reserve officers attend one weekend per month and an annual two-week training camp.
- 2) College financing. All advance course and Army ROTC scholarship students receive \$300-500/month stipend. Only scholarship students receive \$450 for books and supplies. Also, advance course students may join the Reserves as an office trainee and receive pay while in college.
- 3) Full-time enrolled students may compete for the Army ROTC scholarship. The scholarship pays full tuition and mandatory fees plus \$1,200.00 per year for books and supplies.
- 4) Option of two careers. Upon graduation and commissioning as officers in the U.S. Army, students may fulfill their obligation by serving on active duty or reserve duty. Reserve officers spend one weekend a month being a soldier. Officers who serve on active duty receive 30 days paid vacation every year, free medical and dental care, travel, and the opportunity to pursue advanced degrees with educational assistance from the Army on a fully funded or partially funded basis.

#### The Program

College students who complete the ROTC program earn commissions as second lieutenants in the U.S. Army. The ROTC program may be completed in several different ways as outlined below.

- 1) Four-Year Program. The military science program is traditionally offered as a four-year program. It is best to start as a freshman, but special arrangements can be made for those who start as sophomores. The first two years of military science are voluntary without service obligation, and are designed to give students a perspective on their leadership ability and what the Army can offer them. The student who decides to continue in ROTC and pursue a commission signs an agreement with the Department of the Army to accept a commission upon completion of the last two years of military science. In return the Army agrees to provide a subsistence allowance (up to \$5,000) and to provide all necessary uniforms and military science books.
- 2) Two-Year Program. The two-year program is designed to provide greater flexibility in meeting the needs of students desiring commissions in the U.S. Army. UM-St. Louis students who did not participate in the four-year program and junior college transfer students are eligible for enrollment. Basic prerequisites for entering the

two-year program are:

- A) The students must be in good academic standing (minimum 2.0 GPA) and pass an Army medical examination.
- B) The student must have two academic years of study remaining (undergraduate, graduate, or combination). The student will attend a six-week summer camp to catch up with the students in the four-year program. Attendance at the basic camp does not obligate the student in any way and is only intended to give the student a look at Army life and opportunities. The student will be paid approximately \$750 for attendance at basic camp.

#### **Veterans**

Veterans of any of the armed forces may qualify for advanced placement and should contact the Military Science Department for details.

#### **Scholarships**

The Army ROTC currently has scholarships in effect, which pay full tuition and mandatory fees plus \$1,200.00 per year for books and supplies, and provide \$300-500/month for the academic year. These scholarships cover either four, three, or two years. UM-St. Louis freshmen and sophomores should apply in January for the two- and three-year scholarships. Scholarship students may incur a four-year active duty obligation; however, they may request reserve duty to serve with the Army National Guard or Reserve.

#### **Qualifications**

All students who desire to enter the Army Reserve Officer Training Corps must be U.S. citizens, in good physical condition, and have high moral character. Students must be at least 17 years old to enroll and not over 34 when they receive their commission. If the student will be older than 34 at the time of earning a degree, it is possible to be accepted into Army ROTC with a waiver. Additional qualifications to be admitted into the advanced course include an academic average of C or better and passing an Army medical examination.

#### **Academics**

UM-St. Louis Army Reserve Officers Training Corps academics consist of two parts:

- 1) Earning a degree in the student's chosen academic subject.
- 2) Completing 22 credit hours (four-year program) or 12 credit hours (two-year program) of the military science curriculum. The courses in military science are college-level academic courses which receive full academic credit toward the student's elective degree requirements in the College of Business Administration and the College of Education. The curriculum consists of classroom instruction and a leadership laboratory in which students receive leadership experience.

#### **Leadership Laboratory**

Leadership laboratory is required of all students enrolled in military science courses. Classes are two hours every Thursday afternoon from 4 p.m. to 6 p.m., unless otherwise designated. In addition, students attend one field training exercise each semester. Leadership laboratory develops individual military skills and leadership ability through participation in drill and ceremonies, survival training, mountaineering, field-training exercises, and exposure to progressively greater responsibilities within the Cadet Corps organization.

#### **Graduate Study**

The Army realizes the importance of a graduate degree for its personnel. There are several programs available to assist ROTC graduates in obtaining an advanced degree. The Army sends selected second lieutenants immediately to graduate school (with full pay and allowances) to pursue advanced degrees in engineering and the physical sciences. Other officers may postpone active duty for two years to continue graduate study. Students who are accepted into medical school may take up to four years to complete their studies. There are numerous opportunities for an officer to complete a master's degree in service and receive financial assistance from the Army.

#### **Special Training**

Selected volunteers may attend one of several special schools during the summer: the Airborne Course at Fort Benning, GA; Air Assault School at Fort Campbell, KY; or the Northern Warfare School in Alaska. Successful course completion earns the coveted badge (such as the jump wings or air assault wings) associated with each school. Special cadet troop leadership training is available on a limited basis. Students participating in the program live and work with an active Army unit during part of one summer.

#### **Cadet Activities**

Army ROTC students may participate in many extracurricular activities during the year. Social activities include the Army Military Ball, a fall canoe trip down the Meramec River, picnics, and informal parties. Army ROTC

students also support various campus and community service activities. Interested students also participate in the Drill Team, Color Guard, and Ranger Challenge Team.

## Course Descriptions

### Military Science

#### **1101 Introduction to ROTC (2)**

Make your first new peer group at college one committed to performing well and enjoying the experience. Increase self-confidence through team study and activities in basic drill, physical fitness, rappelling, leadership reaction course, first aid, making presentations and basic marksmanship. Learn fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environments.

#### **1102 Introduction to Leadership (2)**

Learn/apply principles of effective leading. Reinforce self-confidence through participation in physically and mentally challenging exercises with upper division ROTC students. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to the effectiveness of a leader.

#### **2201 Self/Team Development (3)**

Learn/apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams of people. Develop skills in oral presentations, writing concisely, planning of events, coordination of group efforts, advanced first aid, land navigation and basic military tactics. Learn fundamentals of ROTC's Leadership Development Program.

#### **2202 Individual/ Team Military Tactics (3)**

Introduction to individual and team aspects of military tactics in small unit operations. Includes use of radio communications, making safety assessments, movement techniques, planning for team safety/security and methods of pre-execution checks. Practical exercises with upper division ROTC students. Learn techniques for training others as an aspect of continued leadership development.

#### **3301 Leading Small Organizations I (3)**

Series of practical opportunities to lead small groups, receive personal assessments and encouragement, and lead again in situations of increasing complexity. Uses small unit defensive tactics and opportunities to plan and conduct training for lower division students both to develop such skills and as vehicles for practicing leading.

#### **3302 Leading Small Organizations II (3)**

Continues methodology of Mil Sc 1301. Analyze tasks; prepare written or oral guidance for team members to accomplish tasks. Delegate tasks and supervise. Plan for and adapt to the unexpected in organizations under stress. Examine and apply lessons from leadership case studies. Examine importance of ethical decision making in setting a positive climate that enhances team performance.

#### **4401 Leadership Challenges and Goal Setting (3)**

Prerequisite: Mil Sc 1302. Leadership and Management, begins with a series of lessons enabling the students to make informed career decisions as they prepare for accession into the United States Army. The lessons concentrate on Army operations, training management, communications, counseling, leadership skills, and they support the final transition from cadet to lieutenant.

#### **4402 Officership/Transition to Lieutenant (3)**

Prerequisite: Mil Sc 1401. Transition to Lieutenant completes the evolution from cadet to lieutenant by focusing on three areas: first, students are given a basic foundation in military law; second, students build on previous courses to successfully negotiate case studies and practical exercises; third, students will complete a Senior Leadership Project whereby students integrate, apply, and demonstrate their knowledge of military operations.

### Air Force ROTC

The objective of the Air Force Reserve Officer Training Corps is to qualify students for appointment as active duty second lieutenants in the United States Air Force. However, any student may enroll in the freshman/sophomore-level aerospace studies courses, and students may also enroll in the junior/senior-level courses with permission of the professor of aerospace studies.

UM-St. Louis offers the two- and four-year AFROTC programs through an agreement with Saint Louis University. The four-year program is tailored for students with three or more years of undergraduate studies remaining. Students with junior standing or above may apply for entry into the two-year program. Entry into the two-year program is competitive and is based on standardized test scores, academic major, grade-point

average, physical examination, personal interview with the professor of aerospace studies, and successful completion of a summer field training session at an Air Force base. Applicants must be full-time students and must remain in good academic standing.

### **Reserve Officer Training Corps**

The AFROTC Program is divided into the general military course (GMC), the freshman/sophomore level curriculum; and the professional officer course (POC), the junior/ senior level curriculum. The GMC covers two main themes; the Air Force today and the Air Force way. The courses of the POC emphasize the professional development of the future Air Force officer. The curriculum covers Air Force leadership and management and preparation for active duty. Field trips to Air Force bases supplement classroom instruction and familiarize the cadet with Air Force operations and organization.

#### **To be commissioned, AFROTC students/cadets must:**

- 1) Pass a medical exam at a military medical facility.
- 2) Obtain a favorable evaluation on an Armed Forces personal history security investigation.
- 3) Flying applicants must complete commissioning requirements before age 26-1/2, and nonflying applicants must complete commissioning requirements by age 30. However, the age limit for nonflying applicants may be extended to age 35 for outstanding individuals.
- 4) Be of good character (as determined by a favorable record with law enforcement authorities).
- 5) Successfully complete all AFROTC course requirements.
- 6) Complete at least a baccalaureate degree.

Air Force ROTC textbooks are loaned to all AFROTC students without charge. Students in the POC will receive a monthly subsistence allowance of \$150 per month for a maximum of 20 months, an Air Force uniform, in excess of \$700 for the summer field training course, and a travel allowance to and from the training location.

In addition to the AFROTC courses offered for academic credit, the Aerospace Studies Department sponsors the Arnold Air Society and Angel Flight. Arnold Air Society is a national honorary service organization, and membership is open to anyone interested in bringing to the local community a better understanding of the Air Force mission and its leaders.

AFROTC field training is offered during the summer months at selected bases throughout the United States, usually between a student's sophomore and junior years. Students in the four-year program participate in four weeks of field training. Major areas of study include junior officer training, aircrew/aircraft orientation, career orientation, survival training, base functions and Air Force environment, and physical training. Students applying for entry into the two-year program must successfully complete six weeks of field training prior to enrollment in the professional officer course. The major areas of study included in the six-week field training program are essentially the same as those conducted at four-week field training, plus the academic curriculum of the general military course including leadership laboratory. POC cadets are eligible for a \$1,000 per semester federal AFROTC scholarship.

Leadership Laboratory is taken once per week throughout the student's enrollment in AFROTC. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Leadership laboratory involves a study of Air Force customs and courtesies, drill and ceremonies, career opportunities in the Air Force, and the life and work of an Air Force junior officer. It also includes field trips to Air Force installations throughout the United States.

Other training volunteers may attend various special cadet training programs such as light aircraft training, parachute jump training, and advance cadet training. Students participating in the latter work with an Air Force unit during part of the summer.

The Air Force offers four-, three-, and two-year scholarships to qualified students. These scholarships pay tuition, certain fees, and textbook cost. Scholarship recipients receive \$150 per month subsistence allowance. For further information on the Air Force ROTC program at UM-St. Louis, call (314) 977-8227, or at Southern Illinois University at Edwardsville (SIUE), call (618) 692-3180.

### **Aerospace Studies**

The Aerospace studies program is divided into two parts: the general military course, the freshman/sophomore level curriculum, and the professional officer course, the junior/senior level curriculum. The GMC covers two main themes: the Air Force today and the Air Force way. The courses of the POC emphasize the professional

development of the future Air Force officer. The curriculum covers Air Force leadership and management and preparation for active duty. Field trips to Air Force bases supplement classroom instructions and familiarize the cadet with Air Force operations and organizations.

Leadership laboratory is taken two hours per week throughout the student's enrollment in the AFROTC. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. The first two years of the leadership laboratory includes a study of Air Force customs and courtesies, drill and ceremonies, issuing military commands, instructing, directing and evaluating the preceding skills, studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. The last two years of lab consist of activities classified as advanced leadership experiences. They involve planning and controlling military activities of the cadet corps, preparation and presentation of briefings and other oral and written communications, and providing interviews, guidance, and information which will increase the understanding, motivation, and performance of other cadets.

AFROTC cadets must also successfully complete supplemental courses to enhance their utility and performance as commissioned officers. These include university courses in English composition and mathematical reasoning. Specific courses are designated by the professor of aerospace studies.

Cadets in the four-year program participate in four weeks of field training. Cadets in the two- or three- year programs (exception for prior AF service) must attend the six-week FT session, which is identical to the four-week program plus 90 hours of GMC curriculum. Field training is offered during the summer months at selected bases throughout the United States, usually between a student's sophomore and junior years. Major areas of study include Air Force orientation, officer training, aircrew/aircraft orientation, survival training, base functions, and physical training.

Students applying for entry into the two- or three- year program must successfully complete six weeks of field training prior to enrollment in the professional officer course. The major areas of study included in the six-week field training program are essentially the same as those conducted at four-week field training, plus the academic curriculum of the general military course including leadership laboratory. No direct academic credit is awarded for field training.

Federal scholarships are available for AFROTC cadets--any academic major may apply. Applications are to be submitted by detachment personnel to Headquarters Reserve Officers Training Corps, Maxwell Air Force Base, AL.

Participation in AFROTC is not required to take aerospace courses.

#### **Lower Division (General Military)**

Aerospace studies courses (AS-1001 through AS-1002) are basic courses designed to acquaint students with the United States Air Force and the opportunities available as an officer. Grades earned in these courses will be computed in the student's overall grade point average, but credit hours for these courses will not be included in the total hours for graduation.

#### **Course Descriptions**

##### **Aero 1001/1002 The Air Force Today (2)**

A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets, and it complements this course by providing students with followership experiences. Classroom activity, two hours per week; Leadership Laboratory two hours per week, each semester.

##### **Aero 2001/2002 The Air Force Way (2)**

Survey course designed to facilitate the transition from Air Force ROTC cadet to Air Force ROTC candidate. Featured topics include: Air Force heritage, Air Force leaders, Quality Air Force, an introduction to ethics and values, introduction to leadership, group leadership problems, and continuing application of communication skills. Leadership Laboratory is mandatory for Air Force ROTC cadets, and it complements this course by providing cadets with their first opportunity for applied leadership experiences discussed in class. Classroom activity, two hours per week; Leadership Laboratory two hours per week, each semester.

#### **Upper Division(Professional Officer) Courses**

Aerospace Studies courses Aero 3001 through Aero 4002 are advanced courses designed to improve communication and management skills required of Air Force officers. Credit hours of these courses may be included in the hours needed for graduation at the discretion of individual departmental chairpersons.

**Aero 3001/3002 Air Force Leadership and Management (3)**

The study of leadership and quality management fundamentals, professional knowledge, Air Force doctrine, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory leadership laboratory complements this course by providing advanced leadership experiences in officer type activities, giving students the opportunity to apply leadership and management principles of this course. Classroom activity, three hours per week; Leadership Laboratory two hours per week, each semester.

**Aero 4001/4002 Preparation For Active Duty (3)**

Examines the national security process, regional studies, advanced leadership ethics, Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. An additional Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply leadership and management principles of this course. Classroom activity, three hours per week; Leadership Laboratory two hours per week, each semester.

**Field Training**

Field Training provides leadership and officership training in a military environment, which demands conformity to high physical and moral standards. Within this structured environment, cadets are screened for officer potential as measured against field training standards. Motivation and professional development is achieved through various programs such as flight orientation, marksmanship, and survival training. Students in the four-year program participate in four weeks of field training. Field training is offered during the summer months at selected bases throughout the United States, usually between a student's sophomore and junior years. Major areas of study include: Air Force Orientation, Officer Training, aircrew/aircraft orientation, survival training, base functions and physical training.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Video Instructional Program

The video instructional program offers an alternative for the student who is far from campus, whose physical disability, work schedule, or other responsibilities make it difficult for him/her to attend traditional classes. Video lessons for various courses are available for viewing on cable television stations as well as in UM-St. Louis libraries.

### St. Louis Area Cable Stations

Continental Cable, and United Video in St. Louis County ; AT&T Cable in the city will air courses over the Higher Education Channel (HEC). (Charter, Continental, United Video & AT&T Cable).

### Course Listings

The following courses from the UM-St. Louis curriculum are offered:

### Anthropology

#### 1019 Archaeology [SS]

This telecourse uses dramatic onsite filming to enable students to explore how archaeologists reconstruct ancient societies and explain how they evolved. Students will understand how archaeology and anthropology interact, with emphasis on how people have behaved in the past.

#### 1025 World Cultures [CD, SS, V]

This telecourse is an ethnographic survey of the major culture areas of the world. It is an introductory cultural anthropology course that studies the structure and process of culture.

#### 1095 Brief Overview of the Four Fields of Anthropology (1)

Through the use of videos, readings, and the online course management system, this course provides a brief overview of the four traditional fields of anthropology: biological, archaeological, cultural, and linguistic anthropology. This course is designed for video instruction and offers minimal direct interaction with the instructor.

#### 2124 Cultures of Africa [CD]

This telecourse offers a basic ethnographic survey of African cultures, with attention to social groupings, tribalism, religion, language, social change, the ecological relationship between humans and nature.

### Biology

#### 1012 General Biology (For Non-Science Majors) [MS]

This telecourse provides a firm foundation in the fundamental principles of biology.

### Communication

#### 2232 Effective Communication in the Organization: Tool for Leadership (3)

Prerequisites: Junior standing or consent of instructor. Telecourse designed to equip students with communication skills applicable to the organizational context. The course will present effective strategies for the articulation of ideas, with particular emphasis on the development of leadership skills.

### History

#### 1031 Topics in European Civilization: Emergence of Western Europe to 1715 [SS]

This telecourse offers lectures and discussions on the development of Western European society and tradition from approximately 800 to 1715.

#### 1032 Topics in European Civilization: 1715 to the Present [SS]

This telecourse offers lectures and discussions on the development of Western European society and tradition from 1715 to the present. Hist 1031 or Hist 1032 may be taken separately.

### Media Studies

#### 1070 Introduction to Cinema

This telecourse examines the history, rhetoric, and aesthetics of film. The content is designed to bring

Hollywood filmmaking into clear focus as an art form, as an economic force, and as a system of representation and communication. Film theory and criticism will be studied, as well as major genres, authors, and artists. Introduction to Cinema explores how Hollywood films work technically, artistically, and culturally. The course also probes the deeper meaning of American movies--the hidden messages of genres, the social and psychological effects of Hollywood film style, and the mutual influence of society and popular culture on filmmaking.

## **Philosophy**

### **1090 Philosophy and Other Disciplines [H,V]**

Prerequisites: Video course offering. General introduction to philosophy examines its connections to works of art and related areas. Course does not satisfy any requirements for philosophy major or minor.

### **1091 Significant Figures in Philosophy [H,V]**

Video course introduces philosophy through a survey of the ideas of some of the important figures in the history of the discipline. Course cannot be used to satisfy any requirements for philosophy major or minor.

## **Psychology**

### **1003 General Psychology [SS]**

This telecourse is an introductory college level course that covers the fundamental principles and major concepts of psychology. The content is designed to provide a broad introductory survey of the general principles of human behavior.

### **1268 Human Growth and Behavior [SS]**

Prerequisites: Psych 1003. This telecourse uses special readings, reports, and/or field research as well as video and audio courses to explore the stages of life as an introduction to developmental psychology.

### **2245 Abnormal Psychology**

Prerequisite: Psych 1003, General Psychology. This telecourse introduces the major theoretical models for explaining and treating disorders - psychodynamic, behavioral, cognitive and biological. Ten of the 13 programs feature specific disorders, including anxiety disorders, personality disorders, the schizophrenias, sexual disorders, substance abuse, and the disorders of childhood. The first program concerns assessment, while the last two provide information on treatment and prevention. This approach serves the introductory abnormal psychology student, while allowing individual faculty latitude to underscore the approach to which they subscribe.

### **4280 The Psychology of Death and Dying**

Same as Geron 4280. Prerequisite: Psych 1003. This telecourse will address the psychological aspects of death and dying for both adults and children. The psychological reactions of terminally ill patients and their families will also be examined, and therapeutic interventions will be discussed.

### **Sociology 1010 Introduction to Sociology [V, SS]**

This telecourse is an introductory college level course designed to give students an in-depth look at sociological approaches to human behavior, including types of social organizations, patterns of social interaction, and social influences on individual conduct.

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# BULLETIN 2007 2008

University of Missouri - St. Louis

## Appendix

### The University of Missouri-St. Louis Honor Statement

The University of Missouri-St. Louis encourages students to pursue excellence within a respectful and collegial environment and to assume responsibility for the consequences of personal actions. For that reason the University requires students to reject any type of dishonest behavior.

Honesty precludes seeking, providing, or receiving any form of unauthorized assistance in taking tests or in the submission of an assignment. It also requires giving credit through appropriate documentation and citation to the author(s) of materials used in written or oral assignments.

The full Student Standard of Conduct is available. By registering for a class at UM-St. Louis, students agree to follow this standard of integrity.

### Code of Student Conduct

#### 200.010 Standard of Conduct Amended March 20, 1981; August 3, 1990; May 19, 1994; May 24, 2001

A student enrolling in the university assumes an obligation to behave in a manner compatible with the university's function as an educational institution.

**A. JURISDICTION OF THE UNIVERSITY OF MISSOURI** generally shall be limited to conduct which occurs on the University of Missouri premises or at university-sponsored or university-supervised functions. However, nothing restrains the administration of the University of Missouri from taking appropriate action, including, but not limited to, the imposition of sanctions under Section 200.020(C), against students for conduct on or off university premises in order to protect the physical safety of students, faculty, staff and visitors.

**B. CONDUCT** for which students are subject to sanctions falls into the following categories:

**1. Academic dishonesty**, such as cheating, plagiarism or sabotage. The Board of Curators recognizes that academic honesty is essential for the intellectual life of the university. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. In all cases of academic dishonesty, the instructor shall make an academic judgment about the student's grade on that work and in that course. The instructor shall report the alleged academic dishonesty to the Primary Administrative Officer.

a. The term **cheating** includes but is not limited to (I) use of any unauthorized assistance in taking quizzes, tests, or examinations; (ii) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; (iii) acquisition or possession without permission of tests, or other academic material belonging to a member of the university faculty or staff; or (iv) knowingly providing any unauthorized assistance to another student on quizzes, tests, or examinations.

b. The term **plagiarism** includes, but is not limited to: (I) use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference; (ii) unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or (iii) unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

c. The term **sabotage** includes, but is not limited to, the unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the university community.

**2. Forgery**, alteration, or misuse of university documents, records or identification, or knowingly furnishing false information to the university.

**3. Obstruction or disruption of teaching, research, administration, conduct proceedings, or other university activities**, including its public service functions on or off campus.

**4. Physical abuse or other conduct which threatens or endangers the health or safety of any person.**

**5. Attempted or actual theft of, damage to, or possession without permission of property of the university or of a member of the university community or of a campus visitor.**

6. Unauthorized possession, duplication or use of keys to any university facilities or unauthorized entry to or use of university facilities.
7. Violation of university policies, rules or regulations or of campus regulations including, but not limited to, those governing residence in university-provided housing, or the use of university facilities, or the time, place and manner of public expression.
8. Manufacture, use, possession, sale or distribution of alcoholic beverages or any controlled substance without proper prescription or required license or as expressly permitted by law or university regulations.
9. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.
10. Failure to comply with directions of university officials acting in the performance of their duties.
11. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals.
12. Actual or attempted theft or other abuse of computer time, including but not limited to:
  - a. Unauthorized entry into a file to use, read, or change the contents, or for any other purpose.
  - b. Unauthorized transfer of a file.
  - c. Unauthorized use of another individual's identification and password.
  - d. Use of computing facilities to interfere with the work of another student, faculty member or university official.
  - e. Use of computing facilities to interfere with normal operation of the university computing system.
  - f. Knowingly causing a computer virus to become installed in a computer system or file.

### **Student Disciplinary Matters**

**Rules of Procedures in Student Disciplinary Matters Adopted November 8, 1968, Amended March 20, 1981; December 8, 1989; and May 18, 1994; May 24, 2001**

#### **RULES OF PROCEDURES IN STUDENT CONDUCT MATTERS**

**Bd. Min. 11-8-68, Amended Bd. Min. 3-20-81; Bd. Min. 12-8-89, Amended 5-19-94; Bd. Min. 5-24-01.**

#### **200.020 RULES OF PROCEDURES IN STUDENT CONDUCT MATTERS**

**A. PREAMBLE.** The following rules of procedure in student conduct matters are hereby adopted in order to insure insofar as possible and practicable (a) that the requirements of procedural due process in student conduct proceedings will be fulfilled by the University, (b) that the immediate effectiveness of Section 10.030, which is Article V of the Bylaws of the Board of Curators relating to student conduct and sanctions may be secured for all students in the University of Missouri, and (c) that procedures shall be definite and determinable within the University of Missouri.

**B. DEFINITIONS.** As used in these rules, the following definitions shall apply:

1. Primary Administrative Officers. As used in these procedures, the Chief Student Affairs Administrator on each campus is the Primary Administrative Officer except in cases of academic dishonesty, where the Chief Academic Administrator is the Primary Administrative Officer. Each Primary Administrative Officer may appoint designee(s) who are responsible for the administration of these conduct procedures, provided all such appointments must be in writing, filed with the Chancellor of the campus, and the office of General Counsel. The Primary Administrator's Office will certify in writing that the given designee has been trained in the administration of student conduct matters.
2. Student Panel. A panel of students appointed by the Chancellor, from which shall be selected by the Chair, upon the request of a student charged before the Student Conduct Committee, not more than three students to serve with the Student Conduct Committee.
3. Student. A person having once been admitted to the University who has not completed a course of study and who intends to or does continue a course of study in or through one of the campuses of the University. For the purpose of these rules, student status continues whether or not the University's academic programs are in session.
4. Student Conduct Committee. As used in these procedures, "Student Conduct Committee," hereinafter referred to as the Committee, is that body on each campus which is authorized to conduct hearings and to make dispositions under these procedures or a Hearing Panel of such body as herein defined.

#### **C. SANCTIONS.**

1. The following sanctions may be imposed upon any student found to have violated the Student Conduct

Code; more than one of the sanctions may be imposed for any single violation:

- a. Warning. A notice in writing to the student that the student is violating or has violated institutional regulations.
- b. Probation. A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe sanctions if the student is found to be violating any institutional regulation(s) during the probationary period.
- c. Loss of Privileges. Denial of specified privileges for a designated period of time.
- d. Restitution. Compensation for loss, damage, or injury to the University or University property. This may take the form of appropriate service and/or monetary or material replacement.
- e. Discretionary Sanctions. Work assignments, service to the University, or other related discretionary assignments.
- f. Residence Hall Suspension. Separation of the student from the residence halls for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
- g. Residence Hall Expulsion. Permanent separation of the student from the residence halls.
- h. University Dismissal. An involuntary separation of the student from the institution for misconduct apart from academic requirements. It does not imply or state a minimum separation time.
- i. University Suspension. Separation of the student from the University for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
- j. University Expulsion. Permanent separation of the student from the University.

2. Temporary Suspension. The Chancellor or Designee may at any time temporarily suspend or deny readmission to a student from the University pending formal procedures when the Chancellor or Designee finds and believes from available information that the presence of a student on campus would seriously disrupt the University or constitute a danger to the health, safety, or welfare of members of the University community. The appropriate procedure to determine the future status of the student will be initiated within seven calendar days.

**D. RECORDS RETENTION.** Student conduct records shall be maintained for five years after University action is completed.

## **E. POLICY AND PROCEDURES.**

### **1. Preliminary Procedures.**

The Primary Administrative Officer/Designee(s) shall investigate any reported student misconduct before initiating formal conduct procedures and give the student the opportunity to present a personal version of the incident or occurrence. The Primary Administrative Officer/Designee(s) may discuss with any student such alleged misconduct and the student shall attend such consultation as requested by the Primary Administrative Officer/Designee(s). The Primary Administrative Officer/Designee(s), in making an investigation and disposition, may utilize student courts and boards and/or divisional deans to make recommendations.

### **2. Informal Dispositions.**

The Primary Administrative Officer/Designee(s) shall have the authority to make a determination and to impose appropriate sanctions and shall fix a reasonable time within which the student shall accept or reject a proposed informal disposition. A failure of the student either to accept or reject within the time fixed may be deemed by the University to be an acceptance of the determination, provided the student has received written notice of the proposed determination and the result of the student's failure to formally reject and, in such event, the proposed disposition shall become final upon expiration of such time. If the student rejects informal disposition it must be in writing and shall be forwarded to the Committee. The Primary Administrative Officer/Designee(s) may refer cases to the Committee without first offering informal disposition.

### **3. Formal Procedure and Disposition.**

#### **a. Student Conduct Committee :**

(1) The Committee shall be appointed by the Chancellor and shall have the authority to impose appropriate sanctions upon any student or students appearing before it.

(2) The Committee, when appropriate or convenient, may be divided by the Chair of the Committee into Hearing Panels, each panel to be composed of at least five Committee members, which may include a maximum of two students, present at the hearing, including a designated chair. A Hearing Panel has the authority of the whole Committee in those cases assigned to it. The Chair of the Committee or of a Hearing Panel shall count as one member of the Committee or Hearing Panel and have the same rights as other members.

(3) Each Chancellor shall appoint a panel of students, to be known as the Student Panel. Upon written request of a student charged before the Committee, made at least seventy-two (72) hours prior to the hearing, the Chair of the Committee or Hearing Panel shall appoint from the Student Panel not more than three students to sit with the Committee or two students to sit with the Hearing Panel (as stated in

4.a.(2) for that particular case. When students from the Student Panel serve at the request of a student charged, they shall have the same rights as other members of the Committee or Hearing Panel.

**b. General Statement of Procedures.** A student charged with a breach of the Student Conduct Code is

entitled to a written notice and a formal hearing unless the matter is disposed of under the rules for informal disposition. Student conduct proceedings are not to be construed as judicial trials and need not wait for legal action before proceeding; but care shall be taken to comply as fully as possible with the spirit and intent of the procedural safeguards set forth herein. The Office of the General Counsel shall be legal adviser to the Committee and the Primary Administrative Officer/Designee(s).

c. **Notice.** The Primary Administrative Officer/Designee(s) shall initiate student conduct proceedings by arranging with the Chair to call a meeting of the Committee and by giving written notice by certified mail or personal delivery to the student charged with misconduct. The notice shall set forth the date, time, and place of the alleged violation and the date, time, and place of the hearing before the Committee. Notice by certified mail may be addressed to the last address currently on record with the University. Failure by the student to have a current correct local address on record with the University shall not be construed to invalidate such notice. The notice shall be given at least seven (7) consecutive days prior to the hearing, unless a shorter time be fixed by the Chair for good cause. Any request for continuance shall be made in writing to the Chair, who shall have the authority to continue the hearing if the request is timely and made for good cause. The Chair shall notify the Primary Administrative Officer/Designee(s) and the student of the new date for the hearing. If the student fails to appear at the scheduled time, the Committee may hear and determine the matter.

#### **4. Right to Petition for Review:**

(other than University expulsion, University dismissal, or University suspension).

a. In all cases where the sanction imposed by the Committee is other than University expulsion, University dismissal, or University suspension, the Primary Administrative Officer/Designee(s) or the student may petition the Chancellor or Designee in writing for a review of the decision within five (5) calendar days after written notification. A copy of the Petition for Review must also be served upon the nonappealing party within such time. The Petition for Review shall state the grounds or reasons for review, and the nonappealing party may answer the petition within five (5) calendar days.

b. The Chancellor or Designee may grant or refuse the right of review. In all cases where the Petition for Review is refused, the action of the Committee shall be final. If the Chancellor or Designee reviews the decision, the action of the Chancellor shall be final unless it is to remand the matter for further proceedings.

#### **5. Right of Appeal**

(University expulsion, University dismissal, or University suspension only).

a. When a student is expelled, dismissed, or suspended from the University by the Committee, the Primary Administrative Officer/Designee(s), or the student may appeal such decision to the Chancellor or Designee by filing written notice of appeal with the Chancellor within ten (10) calendar days after notification of the decision of the Committee. A copy of the Notice of Appeal will contemporaneously be given by the student to the Primary Administrative Officer/Designee(s) or by the Primary Administrative Officer/Designee(s) to the student. The appealing party may file a written memorandum for consideration by the Chancellor with the Notice of Appeal, and the Chancellor may request a reply to such memorandum by the appropriate party.

b. The Chancellor or Designee shall review the record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify each party in writing of the decision on the appeal. The action of the Chancellor shall be final unless it is to remand the matter for further proceedings.

#### **6. Status During Appeal.**

In cases of suspension, dismissal, or expulsion where a Notice of Appeal is filed within the required time, a student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit a student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not seriously disrupt the University or constitute a danger to the health, safety, or welfare of members of the University community. In such event, however, any final sanctions imposed shall be effective from the date of the action of the Committee.

#### **7. Student Honor System.**

Forums under the student honor systems established for investigating facts, holding hearings, and recommending and imposing sanctions are authorized when the student honor code or other regulations containing well defined jurisdictional statements and satisfying the requirements of Section 10.030, which is Article V of the Bylaws of the Board of Curators, have been reduced to writing and have been approved by the Chancellor and the Board of Curators and notice thereof in writing has been furnished to students subject thereto. Though the student honor system has jurisdiction, together with procedures set forth therein, instead of the Primary Administrative Officer/Designee(s), the standard of conduct called for in any such student honor system shall be deemed to contain at a minimum the same standards set forth in Section 200.010, entitled Standards of Conduct. Procedures shall satisfy the requirements of the Board of Curators' Bylaws, Section 10.030, which is Article V, and shall contain procedures herein before stated insofar as appropriate and adaptable to the particular situation and shall be approved by the Chancellor and the General Counsel. Students subject to student honor systems shall have the rights of appeal as set forth in Section 200.020 E.6 and 7.

#### **F. HEARING PROCEDURES.**

**1. Conduct of Hearing.** The Chair shall preside at the hearing, call the hearing to order, call the roll of the Committee in attendance, ascertain the presence or absence of the student charged with misconduct, read the notice of hearing and charges and verify the receipt of notices of charges by the student, report any continuances requested or granted, establish the presence of any adviser or counselor of the student, and call to the attention of the student charged and the adviser any special or extraordinary procedures to be employed during the hearing and permit the student to make suggestions regarding or objections to any procedures for the Conduct Committee to consider.

**a. Opening Statements.**

(1) The Primary Administrative Officer/Designee(s) shall make opening remarks outlining the general nature of the case and testify to any facts the investigation has revealed.

(2) The student may make a statement to the Committee about the charge at this time or at the conclusion of the University's presentation.

**b. University Evidence.**

(1) University witnesses are to be called and identified or written reports of evidence introduced as appropriate.

(2) The Committee may question witnesses at any time.

(3) The student or, with permission of the Committee, the adviser or counselor may question witnesses or examine evidence at the conclusion of the University's presentation.

**c. Student Evidence.**

(1) If the student has not elected to make a statement earlier under a.(2) above, the student shall have the opportunity to make a statement to the Committee about the charge.

(2) The student may present evidence through witnesses or in the form of written memoranda.

(3) The Committee may question the student or witnesses at any time. The Primary Administrative Officer/Designee(s) may question the student or witnesses.

**d. Rebuttal Evidence.** The Committee may permit the University or the student to offer a rebuttal of the other's presentation.

**e. Rights of Student Conduct Committee.** The Committee shall have the right to:

(1) Hear together cases involving more than one student which arise out of the same transaction or occurrence, but in that event shall (1) Hear together cases involving more than one student which arise out of the same transaction or occurrence, but in that event shall make separate findings and determinations for each student;

(2) Permit a stipulation of facts by the Primary Administrative Officer/Designee(s) and the student involved;

(3) Permit the incorporation in the record by reference of any documentation, produced and desired in the record by the University or the student charged;

(4) Question witnesses or challenge other evidence introduced by either the University or the student at any time;

(5) Hear from the Primary Administrative Officer/Designee(s) about dispositions made in similar cases and any dispositions offered to the student appearing before the Committee;

(6) Call additional witnesses or to require additional investigation;

(7) Dismiss any action at any time or permit informal disposition as otherwise provided;

(8) Permit or require at any time amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Committee before final determination of the case; provided, however, that in such event the Committee shall grant to the student or Primary Administrative Officer/Designee(s) such time as the Committee may determine reasonable under the circumstances to answer or explain such additional matters;

(9) Dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Chair of the Committee;

(10) Suspend summarily students from the University who, during the hearing, obstruct or interfere with the course of the hearing or fail to abide by the ruling of the Chair of the Committee on any procedural question or request of the Chair for order.

**2. Rights of Students Upon Hearing.** A student appearing before a Committee shall have the right to:

a. Be present at the hearing;

b. Have an adviser or counselor and to consult with such adviser or counselor during the hearing;

c. Have students from the Student Panel sit with the Committee or Hearing Panel;

d. Hear or examine evidence presented to the Committee;

e. Question witnesses present and testifying;

f. Present evidence by witnesses or affidavit;

g. Make any statement to the Committee in mitigation or explanation of the conduct in question;

h. Be informed in writing of the findings of the Committee and any sanctions it imposes; and

i. Request review or appeal to the Chancellor as herein provided.

**3. Determination by the Student Conduct Committee.** The Committee shall then make its findings and determinations in executive session out of the presence of the Primary Administrative Officer/Designee(s) and the student charged. Separate findings are to be made:

a. As to the conduct of the student, and

b. On the sanctions, if any, to be imposed. No sanctions shall be imposed on the student unless a majority of the Committee present is reasonably convinced by the evidence that the student has committed the violation charged.

**4. Official Report of Findings and Determinations.** The Committee shall promptly consider the case on the merits and make its findings and determination and transmit them to the Primary Administrative Officer/Designee(s) and the student charged forthwith.

**5. Other Procedural Questions.** Procedural questions which arise during the hearing not covered by these general rules shall be determined by the Chair, whose ruling shall be final unless the Chair shall present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.

**6. General Rules of Decorum.** The following general rules of decorum shall be adhered to:

- a. All requests to address the Committee shall be addressed to the Chair.
- b. The Chair will rule on all requests and points of order and may consult with Committee's legal adviser prior to any ruling. The Chair's ruling shall be final and all participants shall abide thereby, unless the Chair shall present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.
- c. Rules of common courtesy and decency shall be observed at all times.
- d. An adviser or counselor may be permitted to address the Committee at the discretion of the Committee. An adviser or counselor may request clarification of a procedural matter or object on the basis of procedure at any time by addressing the Chair after recognition.

**7. Record of Hearing.** A taped or stenographic record of the hearing shall be maintained. The notice, exhibits, hearing record, and the findings and determination of the Committee shall become the "Record of the Case" and shall be filed in the Office of the Primary Administrative Officer/Designee(s) and for the purpose of review or appeal be accessible at reasonable times and places to both the University and the student.

**8. Crimes of Violence and Non-Forcible Sex Offenses.** In cases of alleged crimes of violence and non-forcible sex offences:

- a. The alleged victim is entitled to have an advisor or counselor present during his or her participation in the hearing.
- b. The alleged victim and the accused shall be informed of the outcome of any campus disciplinary proceeding brought alleging a crime of violence or non-forcible sexual assault.

### **Financial Aid Appeals**

The University of Missouri-St. Louis has an established financial aid appeals procedure. An aid applicant can raise questions or appeal the offer, or lack of an offer, of financial aid if not satisfied. The general provisions for appeals procedures are as follows:

- 1)** An aid applicant who is not satisfied with the fact that no aid was offered, or was not pleased with the type and/or amount of aid that was offered, may make a written appeal to the Student Financial Aid Appeals Committee reconsideration of the aid request and/or ask for a personal hearing.
- 2)** If on review of all the facts of the case, including any new information which the applicant may provide, the Committee can a) approve an exception to university policy; b) deny the request; c) approve a modified version of the request.
- 3)** If the Appeals Committee cannot provide a satisfactory solution, he/she may refer the written appeal with all pertinent information to the Director of Financial Aid. Where academic progress is an issue, the student may ask an academic adviser or counselor to write or speak in the student's behalf. If a satisfactory solution is worked out, the case is closed.
- 4)** If step three did not solve the problem, it is referred to the campus Faculty-Senate Committee on Student Aid. In ordinary practice it is rare for a case to be appealed beyond this step.
- 5)** If, however, the applicant is still not satisfied after review by committee, the case is to be referred to the Chancellor.
- 6)** The next appeal is the President.

The final university appeal would be for the President to refer a case to the Board of Curators.

### **Grade Appeal**

On each campus of the University of Missouri it is the Chancellor who is ultimately responsible to the President and the Board of Curators for all campus programs, policies and activities. On the University of Missouri-St.

Louis campus, the Chancellor has delegated responsibility for overseeing the grade appeal process to the Provost. The Provost is therefore responsible for assuring that grade appeals are handled in a fair and timely manner. More specifically, that officer is responsible for seeing that the procedures outlined below are appropriately followed.

### **Application of This Policy**

Students are responsible for meeting the standards established for each course they take. Faculty are responsible for establishing the criteria for grades and evaluating students' academic performance. The grade appeal procedure is to allow only the review of allegedly capricious grading. It is not intended as a review of the instructor's evaluation of the student's academic performance.

**Capricious Grading** is defined as any of the following:

- a) The student's grade was assigned on the basis of other factors rather than the performance on the assignment or in the course;
- b) The student's work was graded with more demanding standards than were applied to equivalent students in the course; (Note: Different grading criteria are expected of graduate students enrolled in 4000-level courses.)
- c) The instructor assigned a grade using standards that were substantially different from those previously announced or stated in the syllabus.

### **Informal Procedures**

At any time after the awarding of a grade, for a course or an assignment in a course, a student may discuss the grade with her or his instructor and request that the instructor review the grade. If the instructor does review the grade he or she is, of course, free to change the grade or not as is appropriate.

### **Formal Procedures**

The following procedures apply if the above informal procedure does not resolve a dispute concerning a grade to the student's satisfaction and if the process is initiated within thirty working days of the start of the first regular semester (fall or spring) following the semester for which the grade was given, or thirty days after the assignment of the grade (whichever is later).

1. If the student has not already done so, he or she discusses the contested grade fully with the instructor. (If the instructor is deceased, cannot be located, or is otherwise unable or unwilling to reconsider the grade, the student should consult directly with the administrative officer of the department or discipline housing the course in question. The remaining procedures here specified will be followed except that the administrative officer and the faculty committee will not consult with the instructor if he or she is unavailable.) The student should prepare for this meeting by taking all relevant written work (test, reports, etc.) with him/her. If the issue is not resolved, and the student wishes to pursue the appeal, she or he should consult the administrative officer of the department or discipline housing the course in question. (This officer will normally be someone below the level of the Dean.) The administrative officer will discuss the appeal with the course instructor, and will inform the student of the result of this discussion. (That result may be the instructor's agreement to change the grade, her or his refusal to change the grade, or her or his agreement to discuss the case further with the student.) The administrative officer may require that the student put the appeal in written form before the administrative officer discusses it with the instructor.
2. If the matter remains unresolved, the student may, within 10 working days of being notified of the result of the discussion between the administrative officer and the instructor, or within 10 working days of her or his last discussion with the instructor, submit a detailed written statement of the complaint to the administrative officer. The administrative officer will refer it to a faculty committee composed of at least three faculty members in the department or unit offering the course or if such are not available, in closely allied fields. This committee is charged with determining whether the grade in question was awarded capriciously. Members will investigate the matter, meeting if they deem necessary with the student, the instructor, and possibly others. Following its inquiries and deliberations but prior to making its final recommendations, the faculty committee will submit a copy of its findings to the course instructor. If the course instructor elects to comment on the findings to the committee, this must be done within seven working days. After further consideration, but within 30 working days after receiving the student's statement, the faculty committee will submit its findings with its recommendations and reasons for those recommendations directly to the course instructor, with a copy to the administrative officer.
3. If the faculty committee recommends that the grade be changed, the administrative officer will ask the instructor to implement the recommendation. If the instructor declines, the administrative officer will change the grade, notifying the instructor and the student of this action. Only the administrative officer, upon written recommendation of the faculty committee, will effect the change in grade over the objection of the instructor who assigned the original grade. (Under current campus policy, transcript notation of "DL" automatically becomes an "F" after one regular semester. This change, which the Registrar is mandated to make, is not considered a grade change and is consistent with this grade appeal policy. Students may appeal this change

provided the appeal is initiated within 30 working days of the notification of the change.

4. If the faculty committee recommends that the grade not be changed, the administrative officer will notify the student of this action. The student may then appeal to the Dean of the School or College within which the course in question is housed, who will determine whether the above procedures have been properly observed. If the Dean determines that the procedures have not been appropriately followed, and that their not being followed may have substantially affected the outcome, the case will be returned to the faculty unit for review by the same, or, if the Dean so determines, by a different committee.

5. If the Dean denies the procedural appeal then the student may ask the Provost, acting as the Chancellor's designee, to conduct a procedural review. The Provost is not obligated to conduct such a review and will normally do so only where there is compelling evidence of procedural irregularities. If the Provost finds the procedures have not been appropriately followed, **and that their not being followed may have substantially affected the outcome**, the case will be returned to a lower level for re-review. As the Provost is acting as the designee of the Chancellor, there is no appeal beyond this level.

## **Student Organization Policy**

### **Policy on Student Organizations**

The University recognizes that the acquisition of knowledge is not confined to the formality of the classroom and that much can be gained through the activities of student organizations. To assure maximum freedom for students and to assure that organizational activities are orderly, responsible, and appropriate to the mission of the university, certain principles and procedures are established through which organizations gain university recognition.

### **I Procedures for Recognition**

A. To obtain recognition or to register, an organization shall submit to the Vice Chancellor for Student Affairs, through the Office of Student Life, a recognition or registration form which shall include:

- 1) The name of the organization.
- 2) A statement of the general purpose of the organization and the means for accomplishing it. The statement should demonstrate that the organization's purpose is to broaden the scope of general learning, extend knowledge of specialized areas, or to serve the professional, cultural, social or recreational interests of the university community, consistent with the educational goals of the university. The statement must not conflict with policies governing recognized organizations as listed below.
- 3) The names of at least three officers and ten responsible representatives, including student numbers, addresses and telephone numbers; these persons must be students registered at the university of Missouri-St. Louis.
- 4) A statement of any affiliation with any other organization not registered with the university, and a copy of the organization's constitution.
- 5) Organizations seeking recognition must include a copy of their constitution and/or by-laws, the name of a UM-St. Louis faculty or staff member (.75 FTE) who agrees to serve as an advisor, and the name of a student member of the organization who will serve as the organization's representative on the Student Government Association.
- 6) Upon submission of the recognition or registration form, the organization shall be granted temporary privileges until the request for recognition is acted upon by the Senate Student Affairs Committee or the request to register is approved by the Director of Student Life.

B. To maintain recognition or registration, an organization must update their recognition form or re-register with the Office of Student Activities no later than two weeks following the beginning of the fall semester.

### **II Privileges of Recognized Organizations**

- 1) Use of campus facilities and services for organizational activities as provided in the university regulations.
- 2) Use of the university name in connection with publicity, but only for identification purposes, and in no way to imply support of the university for any position of the organization.
- 3) Participation in university-sponsored events.
- 4) Application for supplemental financial assistance.
- 5) Participation as a voting member of Student Government Association. Organizations who register may not apply for supplemental assistance and may not be voting members of Student Government Association.

### **III Policies Governing Recognized or Registered Organizations**

- 1) Organizations shall comply with the Rules and Regulations of the University of Missouri and the St. Louis campus.
- 2) Organizations' membership policy shall not discriminate for reasons of color, creed, national origin or gender. Any organization may petition to the Vice Chancellor for Student Affairs for exemption from the requirement as it applies to gender. Academic and professional organizations which have discriminatory membership policy based on gender shall not be recognized.
- 3) Organizations' membership shall not be subject to approval by anyone other than the local campus

membership.

4) Organizations are expected to maintain fiscal responsibility.

5) Recognized and registered organizations are required to seek the advice of faculty and other members of the community.

6) Recognized organizations are required to participate in the Student Governance process.

#### **IV Procedure for Review of Grievances**

A. Any member of the university community may bring charges against a recognized organization for breach of the above policies or procedures.

B. Such charges, except those pertaining to discrimination, are brought initially to the Vice Chancellor for Student Affairs, who may:

1) Dismiss the charges, in which case an appeal may be made to the Senate Student Affairs Committee.

2) Settle the charges in a way acceptable to both parties or,

3) Refer the charges to the Senate Student Affairs Committee.

C. Penalties may range from withdrawals of one or more privileges to withdrawal of recognition or registration. Assessment of penalties shall also provide for the conditions leading to reinstatement of such privileges for recognition.

D. Either party to the charges may appeal the decision of the Senate Student Affairs Committee to the Chancellor.

#### **Policy on Hazing**

Hazing, defined by the Fraternity Executive Association and accepted by the University of Missouri-St. Louis, is any intentional action taken or situation created, whether on or off university premises, that produces mental or physical discomfort, embarrassment, harassment, or ridicule. This includes but is not limited to: paddling in any form, creation of excessive fatigue, physical or psychological shocks, wearing apparel publicly which is conspicuous and not normally in good taste, engaging in public stunts and buffoonery, morally degrading or humiliating games and activities, involuntary labor, or any activity not consistent with the University of Missouri Board of Curators Standard of Student Conduct. The University of Missouri-St. Louis does not condone or tolerate hazing of any type by an organization, or by an individual against another individual.

The Office of Student Activities will investigate any incident in which a charge of hazing has been made. University recognition may be temporarily withdrawn pending hearings and due process procedures.

Should it be determined that a student organization or any of its members is guilty of hazing as previously defined, sanctions may include but are not limited to:

A. Automatic and indefinite suspension of campus recognition or registration with an accompanying loss of all campus privileges (i.e. use of facilities, student services, etc.);

B. Disciplinary action against those members involved in the incident(s) including suspension or expulsion from the university.

Implementation: Each organizational president (or equivalent officer) is required to read and sign the university's Policy on Hazing at the first regular meeting at which he or she presides. This policy, signed by the incoming president (or equivalent officer), must accompany any notification of a change in officers submitted to the Office of Student Activities. Failure to do so will result in the automatic imposition of inactive status on the organization with an accompanying loss of all university privileges until such time as the signed policy is submitted.

#### **Equal Opportunity Policies of the University of Missouri-St. Louis**

The University of Missouri-St. Louis is an affirmative action/equal opportunity employer committed to excellence through diversity. Therefore, the university enthusiastically complies with and vigorously enforces each Federal and State Executive Order, law and regulation, University of Missouri Rules and Regulations and University of Missouri-St. Louis directive that prohibits discrimination against employees, students, and others based upon their race, color, religion, sex, sexual orientation, national origin, age, disability, or status as Vietnam era veteran.

The above compliance is established upon, but not limited to, the following employment and education related equal opportunity laws: Civil Rights Act of 1964, Title VII, as amended, Executive Order 11246; Equal Employment Opportunity Equal Pay Act of 1963, as amended Age Discrimination in Employment of 1967, as amended; Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended; Executive Order 11141; Rehabilitation Act of 1973, Sections 503 and 504, as amended; Civil Rights Act of 1964, Title VI, and as amended; Educational Amendments of 1972, Title IX; and, Americans with Disabilities Act of 1990

The Board of Curators of the University of Missouri has adopted the appropriate equal opportunity policies and procedures in compliance with the above laws and procedures. The Chancellor is responsible for the implementation of equal opportunity at UM-St. Louis. Assisting the Chancellor and each Vice Chancellor is the Office of Equal Opportunity (OEO). All equal opportunity functions for the campus are centralized in the OEO.

The following equal opportunity policies have been established by the University of Missouri Board of Curators to govern the academic and administrative functions of the University:

**320.010 EQUAL EMPLOYMENT OPPORTUNITY PROGRAM**

**330.060 SEXUAL HARASSMENT**

**240.040 POLICY RELATED TO STUDENTS WITH DISABILITIES**

**330.070 AFFIRMATIVE ACTION ON COMMITTEE APPOINTMENTS**

**330.080 MAINTAINING A POSITIVE WORK AND LEARNING ENVIRONMENT**

**320.010 Equal Employment Opportunity Program**

Equal opportunity is and shall be provided for all employees and applicants for employment on the basis of their demonstrated ability and competence without discrimination on the basis of their race, color, religion, sex, sexual orientation, national origin, age, disability, or status as a Vietnam era veteran.

Equal opportunity is and shall be also provided for all students and applicants for admission in compliance with existing legislation.

**University of Missouri-St. Louis Equal Opportunity Statement**

The University of Missouri-St. Louis is committed to equal employment and educational opportunities without regard to conditions of race, color, sex, sexual orientation, religion, national origin, age, disability, or status as a Vietnam veteran.

Each administrative unit of the university employing personnel, admitting students, or entering into contracts is charged with implementation of the university's commitments, and maintenance of records to demonstrate good faith efforts, in admission and training, recruiting and hiring, compensating and promoting, layoff and dismissal, granting of tenure, contracting and purchasing, and access to facilities and programs.

As an employer and as an institution accountable to taxpayers and the general public, the university must have administrative and management practices that are designed for the best use of talent for operational effectiveness and efficiency.

**(1) Recruitment and employment of personnel**

- a. Recruitment of professors and academic personnel in research and continuing education/extension is primarily the responsibility of deans, directors, chairpersons, and department heads.
- b. Recruitment of administrative, service, and support staff, except for top-ranking administrative personnel, is primarily the responsibility of the personnel office of each campus, and the director of Human Resources for the University of Missouri-St. Louis administration. Selection is the responsibility of the administrative head of the employing unit.
- c. Administrative efforts are made to recruit and employ minorities, women, persons with disabilities, and members of protected age groups.
- d. The university maintains relationships with governmental agencies, community groups, and other organizations which may be of assistance in furthering recruitment and employment of minority groups, persons with disabilities, and women into departments and units which have imbalances. Personnel sources are advised of the university's commitment to equal opportunity and affirmative action.
- e. Imbalances exist when available talent among specified minorities, women, persons with disabilities, or protected age group members is proportionately underrepresented in a particular personnel category in the university.

Under representation is determined by an analysis of the appropriate employment market which is generally national or regional for major administrators, professors, and academic personnel in research and continuing education/extension. The appropriate employment market is generally the state or local community for most administrative positions and for service and support staff.

- f. Advertisement and notices of employment opportunities indicate a filing date for consideration.
- g. Notice of employment and training opportunities are made to existing personnel.
- h. Employment applications meet federal and state requirements relating to equal opportunity.
- I. The Office of Equal Opportunity maintains records to demonstrate efforts and results of efforts to achieve equity and to act affirmatively and reasonably to correct imbalances.

**(2) Salaries, wages, and benefits**

- a. University compensation and benefit programs are administered without regard to race, color, sex, sexual orientation, religion, national origin, age, disability, or status as a Vietnam era veteran.

b. The salary range for academic positions is determined in advance of recruitment on the basis of prevailing national levels and departmental scales for the educational attainment, experience, and specialty desired.

**(3) Facilities, activities, and working conditions**

a. University facilities are maintained on an equitable and nondiscriminatory basis.

b. Physical facilities have been adapted within the limits of the financial resources available to insure access to the university by the persons with disabilities.

c. Opportunities for involvement in university activities are provided on an equitable or nondiscriminatory basis.

**(4) Promotion and training**

a. Promotions, contract renewals, the granting of tenure, and reductions in force of academic personnel are handled in accordance with established university procedures and qualification criteria for all persons and free of discrimination.

b. University policy requires that promotions, demotions, layoffs, recalls from layoffs, transfers, and temporary hires for service and support personnel are determined without regard to conditions of race, color, sex, sexual orientation, religion, national origin, age, disabilities or status as a Vietnam era veteran.

c. Participation in training and educational programs sponsored by the university, including apprenticeships, is open to all employees within eligible job classifications.

d. The university offers developmental programs for professional and personal growth to enhance promotion potential.

**(5) Student admission and retention**

a. The university gives students equal access to its academic programs without regard to conditions of race, color, sex, sexual orientation, religion, national origin, age, or disability. Furthermore, the university seeks to recruit, enroll, retain, and graduate minority group members and women in those fields in which they are underrepresented.

b. The University of Missouri has a unique responsibility for graduate and professional public higher education in the state of Missouri. Therefore, academic departments offering doctoral and/or advanced professional programs in disciplines and professions in which there is a deficiency of minorities and women have adopted methods to encourage enrollment, retention, and graduation of minority group members and women.

c. Affirmative action is taken to offer graduate teaching and research assistantships to minorities and women.

d. Business, government, industry, and labor are solicited to assist and provide support to minorities and women through financial aid and by providing work experiences as they pursue academic objectives.

e. Personnel representatives of prospective employers using university services and facilities to interview and recruit students must be equal opportunity employers, and must give all qualified students equal opportunity for interviews, without regard to conditions of race, color, sex, religion, national origin, age, disability, or veteran status.

**(6) Appeal and grievance procedures**

a. Grievance procedures are available for the processing of complaints and grievances of alleged discrimination based on conditions of race, color, sex, sexual orientation, religion, national origin, age, disability, or veteran status.

b. A student grievant has access to the student grievance procedures through the Office of Student Affairs, the school or college, the campus, and central administration.

c. The Office of Equal Opportunity provides advice and information to individuals on the grievance procedures and conducts investigations of alleged discrimination.

**(7) Records and reports**

a. The administrative head of each university unit must be prepared to demonstrate that equal opportunity is practiced and that affirmative action is taken in the recruitment and employment of full-time and part-time personnel, admission and retention of students, provision of facilities and programs, and purchasing and contracting.

b. Each responsible administrative unit of the university must be prepared to show that procedures followed and selections made are in compliance with policies on equal employment and affirmative action. Admissions applications are retained for one year and employment applications are retained for two years.

University business involving contracts and bids for various services are retained in compliance with University of Missouri record management policies.

c. Those responsible for recruiting, admitting, and retaining students "undergraduate, graduate and professional" maintain files and records documenting efforts to provide equal opportunity and act affirmatively to attract and retain minority group members, women, older persons, and persons with disabilities.

d. Campus administrative officers maintain records demonstrating efforts to provide equal opportunity and show affirmative action in the availability and use of university facilities, including recreational facilities.

e. Those responsible for personnel recruitment and employment, including graduate teaching and research assistants, have records that reflect their adherence to equal opportunity and affirmative action practices.

f. Academic or administrative units receiving complaints or grievances based on allegations of discrimination report those cases to the Office of Equal Opportunity.

**(8) Equal Opportunity Advisory Council (EO Council)**

- a. The EO Council is appointed by the Chancellor.
- b. EO Council membership includes a reasonable cross section of personnel, including a representation of women, minorities, and persons with disabilities.
- c. The EO Council advises the Director of Equal Opportunity on matters relating to affirmative action and university equal employment policy.
- d. Administrative officers (chancellor, vice chancellors, deans, directors, department chairpersons, and all other supervisory personnel) are responsible for implementation of equal opportunity and affirmative action policies and practices within their areas of jurisdiction, and the effectiveness of implementation will be an element in the evaluation of the performance of each officer.

**(9) Dissemination**

- a. Equal opportunity and affirmative action policies and programs are disseminated throughout the university and discussed at appropriate school, college, departmental, management, and supervisory meetings. The subjects covered include the recruitment, admission, and retention of students and recruitment, employment, training, promotion, and transfer of employees.
- b. University faculty, staff, and students are kept informed of equal opportunity programs and affirmative action goals through campus publications and communications, the Personnel Policy Manual, the Faculty Handbook, divisional and departmental meetings, staff orientation programs, and posters.
- c. Copies of the Equal Employment and Affirmative Action policies are available to a cross section of community organizations, news media, area colleges, secondary schools and recruiting sources.
- d. Copies of the Affirmative Action Policy will be made available on request to employees, applicable governmental agencies, and contractors or subcontractors.
- e. University invitations to bid, purchase orders, and specifications to architects and engineers contain the university's equal opportunity policy.
- f. University correspondence, employment notices and advertising, academic information, and other public notices contain the university's equal opportunity phrase.

**330.060 Sexual Harassment**

This University of Missouri policy aims for an increased awareness regarding sexual harassment by making available information, education and guidance on the subject for the university community.

A. Policy Statement--It is the policy of the University of Missouri, in accord with providing a positive discrimination-free environment, that sexual harassment in the work place or the educational environment is unacceptable conduct. Sexual harassment is subject to discipline, up to and including separation from the institution.

B. Definition--Sexual harassment is defined for this policy as either:

- (I) Unwelcome sexual advances or requests for sexual activity by a university employee in a position of power or authority to a university employee or a member of the student body, or
- (II) Other unwelcome verbal or physical conduct of a sexual nature by a university employee or a member of the student body to a university employee or a member of the student body, when:
  - a. Submission to or rejection of such conduct is used explicitly or implicitly as a condition for academic or employment decisions; or
  - b. The purpose or effect of such conduct is to interfere unreasonably with the work or academic performance of the person being harassed; or
  - c. The purpose or effect of such conduct to a reasonable person is, to create an intimidating, hostile, or offensive environment.

C. Non-Retaliation--This policy also prohibits retaliation against any person who brings an accusation of discrimination or sexual harassment or who assists with the investigation or resolution of sexual harassment. Notwithstanding this provision, the university may discipline an employee or student who has been determined to have brought an accusation of sexual harassment in bad faith.

D. Redress Procedures--Members of the university community who believe they have been sexually harassed may seek redress, using the following options:

1. Pursue appropriate informal resolution procedures as defined by the individual campuses. These procedures are available from the campus Affirmative Action/Equal Opportunity Officer.
2. Initiate a complaint or grievance within the period of time prescribed by the applicable grievance procedure. Faculty are referred to Section 370.010, "Academic Grievance Procedures"; staff to Section 380.010, "Grievance Procedure for Administrative, Service and Support Staff"; and students to Section 390.010, "Discrimination Grievance Procedure for Students."

Pursuing a complaint or informal resolution procedure does not compromise one's rights to initiate a grievance or seek redress under state or federal laws.

E. Discipline--Upon receiving an accusation of sexual harassment against a member of the faculty, staff, or student body, the university will investigate and, if substantiated, will initiate the appropriate disciplinary procedures. There is a five-year limitation period from the date of occurrence for filing a charge that may lead to discipline.

An individual who makes an accusation of sexual harassment will be informed:

1. At the close of the investigation, whether or not disciplinary procedures will be initiated; and
2. At the end of any disciplinary procedures, of the discipline imposed, if any.

#### **240.040 Policy Related to Students with Disabilities**

Executive Order No. 21, 11-1-84; Amended 2-25-97.

#### **A. EQUALITY OF ACCESS**

The University of Missouri (UM) strives to assure that no qualified person with a disability<sup>1</sup> shall, solely by reason of the disability, be denied access to, participation in, or the benefits of any program or activity operated by UM.

Each such qualified person shall receive reasonable accommodations to provide equally effective access to educational opportunities, programs, and activities in the most integrated setting appropriate unless provision of such reasonable accommodation would constitute an undue hardship on the university or would substantially alter essential elements of the academic program or course of study or would otherwise compromise academic standards. This policy shall apply to all programs, services, and activities of the university, including but not limited to recruitment, admissions, registration, financial aid, academic programs, advising, counseling, student health, housing and employment.

#### **B. FEDERAL AND STATE LAWS**

This policy is intended to be consistent with Section 504 of the Rehabilitation Act of 1973, which states that no recipient of federal financial assistance may discriminate against qualified individuals with disabilities solely by reason of disability. This policy is also intended to be consistent with the Americans with Disabilities Act of 1990 and the Missouri Human Rights Act.

#### **C. FACILITIES**

Each program or activity, when viewed in its entirety, shall be accessible to otherwise qualified and eligible students with disabilities. Facilities, or parts of facilities, constructed or renovated for UM use will be designed and built so that they are accessible to and usable by persons with disabilities, in accordance with the ADA Accessibility Guidelines or other accessibility standards properly adopted by the campus. Accessible on-campus housing and food service will be provided at the same cost and with the same program options to qualified students with disabilities as are afforded to non-disabled students. When any UM classes, programs or activities are held in private facilities, thorough efforts shall be made to obtain facilities which are accessible.

#### **D. COORDINATION OF PROGRAMS AND SERVICES FOR STUDENTS WITH DISABILITIES**

1. Campus disability support service (DSS) offices or other designated campus units are responsible for coordination of programs, services, and classroom accommodations for qualified applicants for admission and qualified enrolled students with disabilities. Such coordination relates solely to disability issues. Determinations as to whether a student is otherwise qualified often will be based on the academic requirements developed by the faculty. Specific services available to qualified students with disabilities will be provided by the university in conformity with the requirements of federal and state law.

2. Determinations as to whether requested services and requested accommodations are required will be made initially by the Coordinator of DSS. Accommodation of the disability will be determined by the coordinator and faculty member, and if either disagrees with the prescribed accommodation, such disagreement shall be described in writing promptly and submitted to the Chancellor or his/her designee for resolution in a prompt manner.

3. Initial determinations and any disagreements submitted to the Chancellor or his or her designee will take into consideration all relevant factors including, but not limited to, the following:

- a. current documentation of the specific disability and of the need for the requested services or accommodations;
- b. the essential elements of the academic program or course of study being pursued;
- c. the fact that the law does not require a university to substantially alter essential elements of its academic program or course of study or to otherwise compromise its academic standards.

4. All students seeking disability-related services and/or accommodations must disclose the presence of a

specific disability to DSS. Before receiving requested services and/or accommodations, the student will be required to provide the DSS office with current medical or other diagnostic documentation of a disability from a qualified physician or other qualified diagnostician, as well as current documentation of the need for accommodations. In cases where existing documentation is incomplete or outdated, students may be required to provide additional documentation at the student's expense.

5. It is the student's responsibility to self-identify, to provide current and adequate documentation of his/her disability, and to request classroom accommodations, through the DSS office. The appropriate documentation must be provided in a timely manner to ensure full resolution of accommodations prior to the student's entrance into the program or course of study. Documentation review and accommodations planning by DSS, including consultation with faculty and/or other campus entities that may be affected in providing accommodations, will be done on an individualized case-by-case basis.

6. Reasonable classroom accommodations will be provided to otherwise qualified and eligible students with disabilities who have self-identified and who have provided satisfactory documentation in support of their timely request for such accommodations, in compliance with federal and state mandates. These accommodations shall not affect the substance of the educational programs or compromise educational standards.

7. In addition to providing accommodations needed to ensure nondiscrimination in access to educational opportunities by otherwise qualified students with disabilities, the university is responsible for ensuring that no qualified disabled student is denied the benefits of or excluded from participation in a university program because of the absence of auxiliary aids, services, and/or other reasonable accommodations. Auxiliary aids, services, and/or other accommodations include but are not limited to interpreters (sign or oral), readers, scribes, adaptive equipment, and other appropriate services or equipment necessary for course or program accessibility.

8. While funding for accommodations to ensure equally effective access is provided by the university, funding for auxiliary aids, accommodations, and/or services in some instances may be shared with state vocational rehabilitation agencies. The law does not require and the university does not provide prescription devices or other devices/services of a personal nature (e.g. personal attendants) for students with disabilities.

#### **E. ESTABLISHMENT OF CAMPUS POLICIES**

Chancellors are directed to establish campus policies and/or procedures consistent with this order. These should cover, at a minimum, treatment of disability-related information and appropriate regard for confidentiality, responsibilities of students in applying for services through DSS, time lines to assure that students make accommodation requests in a timely manner, guidelines to assure that disability documentation is reasonably current, a description of the process of individualized assessment of each student's disability documentation and accommodation request(s), the role of faculty in determining the essential elements of the academic program or course of study and the academic standards involved in the accommodations planning and review process within the context of academic program requirements, and processing of complaints and grievances including a procedure for appeal when faculty and/or academic administrators or administrators in other involved campus entities do not agree with the DSS on the requirements of this policy.

1. From the U.S. Justice Department's ADA Title II Technical Assistance Manual, Section II-2.8000: Qualified individual with a disability. In order to be an individual protected by Title II, the individual must be a "qualified" individual with a disability. To be qualified, the individual with a disability must meet the essential eligibility requirements for receipt of services or participation in a public entity's programs, activities, or services with or without: 1) Reasonable modifications to a public entity's rules, policies, or practices; 2) Removal of architectural, communication, or transportation barriers; or 3) Provision of auxiliary aids and services. The "essential eligibility requirements" for participation in many activities of public entities may be minimal. For example, most public entities provide information about their programs, activities, and services upon request. In such situations, the only "eligibility requirement" for receipt of such information would be the request for it. However, under other circumstances, the "essential eligibility requirements" imposed by a public entity may be quite stringent.

ILLUSTRATION: The medical school at a public university may require those admitted to its program to have successfully completed specified undergraduate science courses.

#### **PROVISIONS FOR SERVICES TO STUDENTS WITH DISABILITIES AND REASONABLE ACCOMMODATIONS**

##### **POLICY AND PROCEDURES**

##### **POLICY**

The University of Missouri is committed to equal educational opportunities for qualified students without regard to disabling condition. The University, therefore, will take necessary action to ensure that no otherwise qualified student with a disability is denied access to any particular course or educational program. Such action includes an assessment of the student's abilities and an evaluation of the particular course or program.

### **IMPLEMENTATION PROCEDURES**

It is the student's responsibility to self-identify, to provide current and adequate documentation of his/her disability and to request classroom accommodation, through the disability services office. A request for services will initiate an assessment of needs, including a documentation review and accommodations planning by DSS, involving consultation with faculty and/or other campus entities that may be affected in providing accommodations, and will be done on an individualized case-by-case basis.

Initial determinations as to whether requested services and/or accommodations are required will be made by the coordinator of disability services based on results of the assessment of needs. If either the faculty member or the disability coordinator disagrees with the prescribed accommodation, such disagreement shall be described in writing promptly and submitted to the Chancellor or his or her designee for resolution in a prompt manner.

The University will make reasonable modifications to its academic requirements, if necessary, to comply with legal requirements ensuring that such academic requirements do not discriminate or have the effect of discriminating on the basis of a student's known and adequately documented disability; unless the requested modification would require alteration of essential elements of the program or essential elements of directly related licensing requirements or would result in undue financial or administrative burdens. The divisional dean's office, in cooperation with the disabilities service coordinator and the department through which the requirement is fulfilled, will determine the appropriate modification of substitution. Any qualified student with a disability who believes that accommodations and/or auxiliary aid(s) will be necessary for participation in any course, course activity, or degree program must indicate a need for services to the designated disability services office at least six weeks prior to the beginning of the semester or degree program.

The disability services coordinator will oversee an assessment of the student's request for services and/or accommodations. If an unfavorable determination is made, the student may appeal the decision through the UM Discrimination Grievance Procedure for Students.

### **AIDS Policy Statement**

Current knowledge indicates college and university students or employees with AIDS, ARC, or a positive antibody blood test do not pose a health risk to either students or employees in a usual academic or residential setting. The policy of University of Missouri is to permit students and employees with AIDS to continue to engage in as many of their normal pursuits as their condition allows. Managers should be sensitive to the medical problem and ensure that such employees are treated consistent with the treatment of other employees. Students will be allowed to continue their enrollment and activities (including continued residency in student housing) as long as they continue to meet academic standards and medical evidence indicates their conditions are not a threat to themselves or others. Every effort will be made to maintain confidentiality at all times.

The university also has a legitimate interest in the welfare of all students, employees, and visitors to the campus. Every reasonable precaution will be taken to minimize the risk that an employee's or student's condition will present a health and/or safety hazard to others.

The university will not discriminate against individuals with HIV infection, AIDS or ARC, but this protection does not include individuals with secondary infections or diseases that would constitute a direct threat to the health or safety of others who may because of the disease or infection be unable to perform duties of their employment. In such cases, the appropriate university personnel or student policy will determine what changes, if any, will be made in the student's or employee's academic or work program.

In the event of public inquiry concerning AIDS on campus, the Chancellor or the Chancellor's designee will provide appropriate information on behalf of the university. Existing policies regarding confidentiality of employee and student records will be followed.

Consistent with its concern for students and employees with AIDS, the university offers a range of resources through the AIDS Task Force on each campus and through other campus services.

- a. Student, employee, and management education and information;
- b. Referral to agencies and organizations that offer supportive services for life-threatening illnesses;
- c. Consultation to assist employees in effectively managing health, leave, and other benefits.

The AIDS Task Force on each campus will continue to meet periodically to review and update policy and to make recommendations as new medical facts become available. Each Task Force will continue to encourage programs to educate all members of the campus community about the reality of AIDS.

To address specialized needs, each campus is authorized to adopt and implement special policies related to AIDS which are consistent with this policy statement.

### **330.070 Affirmative Action on Committee Appointments**

Executive Guideline No. 13, October 13, 1977.

#### **A. Affirmative Action**

As part of the implementation of the Affirmative Action Plan of the University of Missouri, any person appointing any committee for the University or any campus, in selecting the membership, shall give due consideration to the inclusion in such membership of women and minorities unless membership thereon is ex-officio.

### **330.080 Maintaining a Positive Work and Learning Environment**

1. The University of Missouri is committed to providing a positive work and learning environment where all individuals are treated fairly and with respect, regardless of their status. Intimidation and harassment have no place in a university community. To honor the dignity and inherent worth of every individual student, employee, or applicant for employment or admission is a goal to which every member of the university community should aspire and to which officials of the university should direct attention and resources.

2. With respect to students, it is the university's special responsibility to provide a positive climate in which students can learn. Chancellors are expected to provide educational programs and otherwise direct resources to creative and serious measures designed to improve interpersonal relationships, to help develop healthy attitudes toward different kinds of people, and to foster a climate in which students are treated as individuals rather than as members of a particular category of people.

3. With respect to employees, the strength we have as a university is directly related to maintaining a positive work environment throughout the institution. The university should provide a positive recruiting and work environment focused on the duties and skills of the work to be performed. It is the expectation of the university that all employees and potential employees will be treated on the basis of their contribution or potential contribution without regard to personal characteristics not related to competence, demonstrated ability, performance, or the advancement of the legitimate interests of the university. The General Officers are expected to provide training programs for supervisors to assist in achieving this objective.

4. With respect to violations of the policy, faculty, staff and students may utilize their respective grievance procedures approved by the Board of Curators. The approved grievance procedures are as follows: Grievance procedure in Section 370.010 for faculty; grievance procedure in Section 380.010 for staff; and grievance procedure in Section 390.010 for students, and each such procedure shall be deemed as amended to include grievances filed under this policy. This policy shall not be interpreted in such a manner as to violate the legal rights of religious organizations, or military organizations associated with the Armed Forces of the United States of America.

#### **Other Procedures or Regulations**

#### **Discrimination Grievance Procedure for Students 390.010**

**December 17, 1982, January 25, 1990, and October 16, 2003**

#### **A. GENERAL**

1. It is the policy of the University of Missouri to provide equal opportunity for all enrolled students and applicants for admission to the university on the basis of merit without discrimination on the basis of their race, color, religion, sex, national origin, age, or disability, or Vietnam era veteran status. Sexual harassment shall be considered discrimination because of sex. This policy shall not be interpreted in such a way as to violate the legal rights of religious organizations or military organizations associated with the Armed Forces of the United States of America.

2. To insure compliance with this policy, all University of Missouri prospective or enrolled students shall have available to them this student discrimination grievance procedure for resolving complaints and/or grievances regarding alleged discrimination.

3. This grievance procedure neither supersedes nor takes precedence over established university procedures of due process for any and all matters related to Academic Dishonesty, Grade Appeals, Traffic Appeals, Disciplinary Appeals, or other specific campus procedures which are authorized by the Board of Curators and deal with faculty/staff responsibilities.

4. These proceedings may be terminated at any time by the mutual agreement of the parties involved.

NOTE: A grievance concerning specific incidents filed under this discrimination grievance procedure shall not

be processed on behalf of any student who elects to utilize another university grievance procedure. In addition, the filing of a grievance under these procedures precludes the subsequent use of other university grievance or appeals procedures for the same incident.

## **B. DEFINITIONS**

1. A complaint is an informal claim of discriminatory treatment. A complaint may, but need not, constitute a grievance. Complaints shall be processed through the informal procedure herein set forth.

2. A grievance is the written allegation of discrimination which is related to:

- a. Recruitment and admission to the institution.
- b. Admission to and treatment while enrolled in an education program.
- c. Employment as a student employee on campus.
- d. Other matters of significance relating to campus living or student life, including, but not limited to: Assignment of roommates in resident halls; Actions of fraternities and sororities; Membership in and/or admission to clubs/organizations; Student Health Services; Financial aid awards.

3. A student is any person who has applied for admission or readmission, or who is currently enrolled, or who was a student of the university of Missouri at the time of the alleged discrimination.

4. Persons with disabilities--For the purpose of this student discrimination grievance procedure, a "person with a disability" has been substituted for "handicapped individual" (Section 504, Rehabilitation Act of 1973) and shall be defined as "any person who

- a. Has a physical or mental impairment which substantially limits one or more of such person's major life activities,
- b. Has a record of such impairment, or
- c. Is regarded as having such an impairment

For purpose of this definition, A "major life activity" means any mental or physical function or activity which, if impaired, creates a substantial barrier to employment and/or education.

Any reference in this document to written materials or to written or oral presentations within the student discrimination grievance procedure may be adjusted to accommodate persons with disabilities for whom the stated materials or required presentations would not be appropriate. Cost of such accommodation will be borne by the university, with no charge to the individual.

5. Appropriate Administrative Officer--The primary administrative officer on the staff of the Chancellor (in the area of Student Affairs/ Services, Administrative Services, Development, and Academic Affairs) having administrative responsibility for the unit in which the discrimination is alleged to have occurred.

6. Grievance Consultant--At any step the Director of Equal Opportunity or of Affirmative Action may be asked to serve as a consultant by any of the parties involved in this grievance procedure.

## **C. COMPLAINTS**

1. Policies and Procedures--A student with a complaint will be provided with copies of appropriate policies and procedures pertaining to student complaints and grievances, and the Chief Student Personnel Administrator or his/her designee and the Officer for Equal Opportunity or for Affirmative Action shall be available to assist the student in understanding the opportunities afforded through such policies and procedures. The student may choose to have an adviser participate in any stage of the grievance procedure, subject to the restrictions of the hearing procedures set forth in Section 390.010 F.

2. Joint Complaint--If more than one student is aggrieved by the same action, these students may, by mutual written agreement among themselves, file with the Chief Student Personnel Administrator a complaint and pursue their complaints jointly under this grievance procedure. If the number of students in such a case is so large as to make it impracticable for them to be heard individually in a joint proceeding, they may, by mutual agreement, elect one or more of their number to act on behalf of them all.

3. Students may informally discuss a complaint with the relevant supervising administrator. Every reasonable effort should be made to resolve the matter informally at this administrative level. If a satisfactory resolution is not reached, the student may pursue the matter through each level of administrative jurisdiction up to and including the Appropriate Administrative Officer, or file a grievance within the time specified in D.1.b.

4. Complaints Involving Recruitment

- a. Undergraduate applicants must first present complaints about recruitment to the Director of Admissions. If a satisfactory resolution is not reached, the applicant may appeal the matter to the immediate supervising officer of the Director of Admissions.
- b. Applicants for graduate study may request a meeting with the academic department head and the dean of the college, or their designees, who are actually involved in the recruitment effort to discuss the matter

informally. If a satisfactory resolution is not reached, the applicant may appeal to the Dean of the Graduate School and finally to the Appropriate Administrative Officer.

5. Complaints Involving Admissions (Undergraduate or Professional)

- a. Undergraduate and professional student applicants shall present complaints to the Director of Admissions or to the dean of the school or college, depending upon where the application was originally filed.
- b. This university official shall compare the person's academic qualifications against the official university admissions criteria and review the denial. If the denial is sustained, the applicant may appeal this decision to the official's immediate supervisor or to the appropriate admissions committee.

6. Complaints Involving Admissions (Graduate)--Applicants to the Graduate School may ask for a meeting with the academic department head of the program to which the applicant was seeking admission.

This official shall explain the reasons for the denial of recommendation for admission. If a satisfactory resolution is not reached, the applicant may then appeal to the Dean of the Graduate School or to the appropriate admissions committee. If the denial is upheld, the applicant may appeal the decision to the appropriate administrative officer.

7. Complaints Involving Admissions to or Treatment in an educational Program or in the Granting of Assistantships - An undergraduate or graduate student enrolled at the institution who has a discrimination

complaint involving admission to or treatment in an educational program or in the granting of assistantships may request a conference with the appropriate department head and with the dean of the school or college (or the dean's designee) to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 F.

8. Complaints Involving Nonacademic Matters Related to Campus Living and Student Life--A currently enrolled student who has a university-related complaint concerning discrimination in nonacademic matters including but not limited to assignment of roommates, actions of fraternities and sororities, membership in and/or admissions to

clubs/organizations, student health services and financial aid awards may request a conference with the appropriate administrative supervisor, department head and/or director to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 D.

9. Complaints Involving Student Employment on Campus . A student enrolled at the university who alleges that discrimination occurred either in applying for work or while working as a student employee at a university job may request a conference with the supervisor, department head or director of the employing unit to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 D.

10. Complaints Involving Financial Aid (Undergraduate, Graduate, Professional):

- a. Undergraduate, graduate, and professional student aid applicants shall present complaints to the Director of Student Financial Aid where the application was originally filed or the award originally made.
- b. This university official shall compare the person's financial and academic qualifications against the official university financial aid criteria and review the award, amount, or denial of the aid. If the original judgment is sustained, the applicant may appeal this decision to the official's immediate supervisor or to the appropriate financial aid committee.

#### **D. INITIATING A GRIEVANCE**

1. Policies and Procedures-- student with a grievance will be provided copies of appropriate policies and procedures pertaining to student complaints and grievances, and the Chief of Student Personnel Administrator or designee and the Office for Equal Opportunity or for Affirmative Action shall be available to assist the student in understanding the opportunities afforded through such policies and procedures. The student may choose to have an adviser participate in any stage of the grievance procedure, subject to the restrictions of the hearing procedures set forth in Section 390.010 F.

- a. Joint Grievance--If more than one student is aggrieved by the same action, these students may, by mutual written agreement among themselves, file with the Chief Student Personnel Administrator a grievance and pursue their grievances jointly under this grievance procedure. If the number of students in such a case is so large as to make it impractical for them to be heard individually in a joint proceeding, they may, by mutual agreement, elect one or more of their number to act on behalf of all of them.
- b. Regardless of their nature, all discrimination grievances are to be filed with the Chief Student Personnel Administrator. A grievance must have been filed by a student within one-hundred-eighty (180) calendar days of the date of the alleged discriminatory act.

2. Filing a Grievance

a. All grievances must be presented in writing and contain the following information:

- 1) A clear concise statement of the grievance which includes the name of the person(s) against whom the grievance is made, the date(s) of the alleged discrimination and a statement describing the specific supporting

evidence;

2) A brief summary of the prior attempts to resolve the matter which includes the names of persons with whom the matter was discussed and the results of those previous discussions;

3) A specific statement of the remedial action or relief sought.

b. Within seven (7) working days, the original grievance form with an explanation will be returned to the student if, in the judgment of the Chief Student Personnel Administrator, the statements are vague or do not meet the above requirement. The student may make the necessary corrections and resubmit the grievance within seven (7) days.

3. Any grievance not filed within the time limits specified in Section 390.010 D.1.B shall be deemed waived by the grievant. The Chief Student Personnel Administrator may extend the time limits only if adequate cause for an extension of the time limits can be shown by the student.

4. For informational purposes, copies of the grievance shall be forwarded to the Appropriate Administrative Officer and the Director of Equal Employment and/or Affirmative Action.

5. Within fifteen (15) working days of receipt of a grievance that satisfies the requirement of Section 390.010 D.1.b, the Appropriate Administrative Officer with the consent of the parties involved may establish an informal hearing with the aggrieved student, the responding faculty/staff/organization, the respondent's supervisor and the Appropriate Administrative Officer's designee. The Appropriate Administrative Officer shall not involve himself/herself in this meeting. If this informal means of resolving the grievance fails, a grievance committee will be impaneled as called for in Section 390.010 E.1.

#### **E. FORMATION OF GRIEVANCE COMMITTEE**

1. It is the Appropriate Administrative Officer's responsibility to initiate the selection of the grievance committee within fifteen (15) working days after the request for the formation of a grievance committee or after the completion of the informal hearing provided for in Section 390.010 F.5 without satisfaction to the grievant.

2. A grievance hearing panel shall be established by October 1 of each year from which a grievance committee should be constituted. The panel shall consist of ten (10) faculty, ten (10) staff and ten (10) students. Selection of the panel will be made by the Chief Student Personnel Administrator from recommendations by the appropriate faculty, staff and student associations. Selection of membership will consider sex, race, disability, academic rank, student classification and employee classification. Membership on the hearing panel shall be for two years. A member's term shall expire on September 30 of the second year unless he/she is serving at that time on hearing committee still in the process of reviewing an unresolved grievance. In such case, the member's term shall expire as soon as the committee has submitted a written report of its findings and recommendations to the Appropriate Administrative Officer.

3. A hearing committee shall be composed of five (5) members. The grievant shall select two (2) members from the grievance hearing panel provided by the Chief Student Personnel Administrator. The responding faculty/staff/ organization shall select two (2) members from the grievance hearing panel. Both parties should have their selections made within 15 working days of the receipt of the request. The four committee members shall then select an additional member from the grievance hearing panel to serve as chair. Neither members of the immediate departmental unit nor student members of pertinent student organizations involved in the grievance shall be eligible to serve on the committee.

4. Any person selected to a grievance committee will be expected to serve on such committee and to be present at all sessions. If a member is absent from a single session, he/she will be required to review all tapes or transcribed proceedings of that session prior to the next meeting of the committee. Should a member be absent from two sessions or should a member request to be excused from service for reasons of illness, necessary absence from the campus or other hardship, then that member shall be replaced in the same manner used in the original selection (see Section 390.010 E.3). If a member is unable or ineligible to serve for whatever reason, the replacement shall review all tapes or written transcripts and all submitted evidence prior to service on the committee. Five members of the hearing committee, duly selected as in Sections 390.010 E.3 and E.4 must attend the opening and closing session of the hearing.

#### **F. HEARING PROCEDURES FOR FORMAL GRIEVANCES**

1. It shall be the responsibility of the Appropriate Administrative Officer to coordinate the procedures contained herein, to make provisions for hearing rooms, to coordinate secretarial and recording services and to otherwise serve the grievance committee as needed.

2. At the first organizational meeting of the grievance committee, the committee shall elect a chairperson from among the members to preside over subsequent meetings. Then the chairperson shall schedule a hearing at the earliest convenient time when all affected parties can be present.

3. A quorum consists of a minimum of four members of the committee except as provided by Section 390.010 E.4.

4. The grievance committee shall invite the grievant and the responding person to all hearings. Attendance at the hearings shall be limited to persons who have an official connection with the case as determined by the chairperson. The grievant and the responding person may choose to be accompanied by an adviser. Others whose participation in the hearing is considered essential in order to assist the committee in establishing the facts of the case shall appear before the committee only long enough to give testimony and to answer questions of committee members.

5. It is within the duties and responsibilities of all members of a grievance committee to commit themselves to observe procedures consistent with fairness to all parties concerned. For example, it is a matter of principle that members of the grievance committee will not discuss a case with anyone outside of the hearing process and that their finding will not be influenced by anything other than the evidence presented to them in meetings in which all affected parties are present.

6. The grievance committee shall set forth the rules of procedure for the hearing within the guidelines set forth herein. The chairperson may, for good cause and with the concurrence of a majority of the entire committee, authorize deviation from the suggested format, in which case the principal parties shall be notified.

a. The grievant shall be heard first in all phases of a grievance hearing and shall be primarily responsible for the presentation of his/her position.

b. The adviser of the grievant or respondent may advise that person and may briefly explain his or her position but shall not be permitted to testify or to cross-examine.

c. A reasonable time limit should be established for opening and closing statements and shall be announced prior to the hearing.

d. Length of hearing sessions may be established in advance; every effort should be made to conduct the hearing as expeditiously as possible, with equal fairness to both parties.

e. The interested parties shall provide the chairperson with the names of the adviser and potential witnesses at least forty-eight (48) hours prior to the hearing. It is the responsibility of the interested party, working with the chairperson, to ensure the presence of these individuals in a timely manner.

f. After initial witnesses for both parties have been heard, such witnesses may be recalled for additional questioning if requested by either party or the grievance committee. The committee may call new witnesses whose testimony it deems relevant or helpful.

g. In order to promote the truthful, unfettered exchange of information and ideas, all testimony pertaining to the grievance hearing shall be held in confidence.

h. Only evidence relevant to the grievance may be introduced. Questions regarding the admissibility of evidence shall be decided by the chairperson.

7. At any point in the proceedings prior to the time at which the committee reaches its final decision, the grievant may withdraw any portion or all of the grievance with the consent of a majority of the committee members and of the respondent. In all cases of withdrawal at the consent of the committee and of the respondent, the grievant shall not have the privilege of reopening the same grievance at any time in the future. In the event that the student refuses to participate further in the committee hearing, the committee may choose to continue the case or to move to closure with an appropriate closing statement as per Section 390.010 F.9.

8. A confidential tape recording of the grievance hearing shall be made and will be accessible to the parties involved, the committee, the Appropriate Administrative Officer, the Chancellor, the President, members of the Board of Curators and authorized representatives on a need-to-know basis. Either party to the grievance may request that the committee provide a written transcript of testimony. The cost of preparation of such a transcript is to be paid by the party making such request unless Section 390.010 B.4 is applicable. After the report of the grievance committee has been prepared, the tapes and relevant materials will be sealed and filed in the Appropriate Administrative Office. Unless extraordinary circumstances apply, these materials will be destroyed at the end of five years.

9. At the conclusion of the grievance hearing, the members of the grievance committee shall meet in closed session to deliberate upon their findings. A majority vote of the entire committee shall be required on all decisions. The grievance committee shall make a written report on findings and recommendations to the Appropriate Administrative Officer of the university, with copies to the grievant(s) and the responding person(s). The written report will contain:

a. A statement of the purpose of the hearing,

b. Issues considered,

c. A summary of the testimony and other evidence presented,

d. Findings of fact as developed at the hearing, and

e. Recommendations for final disposition of the case.

10. The Appropriate Administrative Officer will make his/her decision. This decision and the actions that have been taken shall be presented to both parties in writing. If the administrative officer does not accept the recommendations of the grievance committee, a written statement of the reasons for so ruling must be given to both parties and to the chairperson of the committee.

11. If requested by the grievant or the responding party, normally within seven (7) calendar days of the notification of the decision, the decision of the Appropriate

12. Grievances shall receive prompt attention. The hearing and the report of the grievance shall normally be completed within sixty (60) calendar days of the formation of the grievance committee, and a final decision shall be made by the appropriate administrative officer normally within ten (10) calendar days thereafter. In any case in which these time schedules should prove to be inadequate the committee shall present, in writing an amended time schedule to all parties involved.

Administrative Officer may be subject to a review of the records by the Chancellor. Any review and decision by the Chancellor shall be made normally within thirty (30) calendar days. The decision of the Chancellor can be appealed to the President, who shall have thirty (30) calendar days in which to make a decision, which shall be final.

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