

**U 225 Introduction to Discrete Mathematics 3 cr.** Offered autumn. Prereq., M 162 or 171 (MATH 150 or 152) or consent of instr. Mathematical concepts used in computer science with an emphasis on mathematical reasoning and proof techniques. Elementary logic, sets, functions and relations, combinatorics, mathematical induction, recursion and algorithms. Mathematics majors should take M 307 instead of 225 (MATH 305 instead of 225).

**U 231 Topics in Geometry 3 cr.** Offered intermittently. Prereq., M 136 (MATH 131) or consent of instr. Geometry topics for teaching grades 6–12 mathematics. Intended primarily for students in elementary education who plan to teach middle school mathematics.

**U 273 (MATH 251) Multivariable Calculus 4 cr.** Offered autumn and spring. Prereq., M 172 (MATH 153). Calculus of functions of several variables; differentiation and elementary integration. Vectors in the plane and space.

**U 274 (MATH 158) Introduction to Differential Equations 3 cr.** Offered spring. Prereq., M 162 (MATH 150) or M 171 (MATH 152) and knowledge of basic trigonometry. Solution of ordinary differential equations and systems with emphasis on applications, numerical methods and computer software.

**U 291 (MATH 295) Special Topics Variable cr.** (R-9) Offered autumn and spring. Prereq., consent of instr. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

**U 292 (MATH 296) Independent Study Variable cr.** (R-9) Offered autumn and spring. Prereq., consent of instr. Guidance of an individual student in doing independent study on material not offered in a regular course.

**U 294 Seminar Variable cr.** (R-9) Offered autumn and spring. Prereq., consent of instr.

**U 300 Undergraduate Mathematics Seminar 1 cr.** (R-6) Offered every semester. Prereq., M 171 (MATH 152). Discussion seminar focused on topics and issues of interest to students in the mathematical sciences.

**U 301 Mathematics Technology for Teachers 3 cr.** Offered autumn. Prereq., M 221 (MATH 221). Discrete and continuous mathematical models from a variety of disciplines using appropriate technology.

**U 307 (MATH 305) Introduction to Abstract Mathematics 3 cr.** Offered autumn and spring. Prereq., M 172 (MATH 153). Designed to prepare students for upper-division proof-based mathematics courses. Topics include proof techniques, logic, sets, relations, functions and axiomatic methods. Students planning to take both M 221 and 307 (MATH 221 and 305) are encouraged to take M 221 (MATH 221) first.

**U 311 Ordinary Differential Equations and Systems 3 cr.** Offered autumn. Prereq., M 273 (MATH 251). Ordinary differential equations. Systems of linear differential equations from a matrix viewpoint. Series solutions. Existence and uniqueness for initial value problems. Numerical methods. Stability and selected topics. M 317 (MATH 317) computer lab recommended.

**U 317 Ordinary Differential Equations Computer Lab 1 cr.** Offered autumn. Coreq., M 311 (MATH 311) or consent of instr. Intended primarily for student in M 311 (MATH 311).

**U 325 Discrete Mathematics 3 cr.** Offered spring. Prereq., M 171 and 225 or 307 (MATH 152 and 225 or 305). Continuation of 225 and topics from graph theory, Boolean algebras, automata theory, coding theory, computability and formal languages.

**U 326 Number Theory 3 cr.** Offered spring. Prereq., M 225 or 307 (MATH 225 or 305). Congruences, Diophantine equations, properties of primes, quadratic residues, continued fractions, algebraic numbers.

**U 361 (MATH 381) Discrete Optimization 3 cr.** Offered spring. Prereq., M 162 or 172 (MATH 150 or 153) (221 or 225 recommended). Intended for non-mathematics majors as well as mathematics majors. Introduction to discrete optimization and modeling techniques with applications. Topics from combinatorics and graph theory, including enumeration, graph algorithms, matching problems and networks.

**U 362 (MATH 382) Linear Optimization 3 cr.** Offered autumn. Prereq., M 162 or 172 (MATH 150 or 153) (221

recommended). Coreq., M 363 (MATH 388) recommended. Intended for non–mathematics majors as well as majors. Introduction to linear programming and modeling techniques with applications. Topics include the simplex method, duality, sensitivity analysis and network models.

**U 363 (MATH 388) Linear Optimization Laboratory 1 cr.** Offered autumn. Coreq., M 362 (MATH 382). Introduction to linear optimization software.

**U 381 (MATH 351) Advanced Calculus I 3 cr.** Offered autumn . Prereq., M 307 (MATH 305). Rigorous development of single-variable calculus with formal proof. Functions, sequences, limits, continuity, differentiation, and integration.

**U 391 (MATH 395) Special Topics Variable cr.** (R-9) Offered autumn and spring. Prereq., consent of instr. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

**U 392 (MATH 396) Independent Study Variable cr.** (R-9) Offered autumn and spring. Prereq., consent of instr. Guidance of an individual student in doing independent study on material not offered in a regular course.

**U 394 Seminar Variable cr.** (R–9) Offered autumn and spring. Prereq., consent of instr.

**U 398 Internship Variable cr.** Offered autumn and spring. Prereq., consent of instructor. Extended classroom experience which provides practical application of classroom learning during placements off campus. Prior approval must be obtained from the faculty supervisor and the Internship Services office. A maximum of 6 credits of Internship (198, 298, 398, 498) may count toward graduation.

**UG 412 Partial Differential Equations 3 cr.** Offered spring. Prereq., M 311 (MATH 311). Fourier series, Sturm–Liouville and boundary value problems. Partial differential equations: Cauchy problems and the method of characteristics, separation of variables and Laplace transform methods. Numerical methods and selected topics. M 418 (MATH 418) computer lab recommended.

**UG 414 Deterministic Models 3 cr.** Offered autumn and spring. Prereq., M 274 or 311 (MATH 158 or 311) or consent of instr. Linear and nonlinear difference and differential equations: stability, phase–plane analysis, oscillatory behavior, limit cycles, and chaos. Eigenvalues and eigenfunctions. Emphasis on models in biology.

**UG 418 Partial Differential Equations Computer Lab 1 cr.** Offered spring. Coreq., M 412 (MATH 412) or consent of instr. Intended primarily for students in M 412 (MATH 412).

**UG 429 (MATH 406) History of Mathematics 3 cr.** Offered spring. Prereq., M307 (MATH 305). Historical study of the development of mathematics from the Egyptian and Babylonian eras to the 20th century.

**UG 431 (MATH 421) Abstract Algebra I 4 cr.** Offered autumn. Prereq., M 221 and 307 (MATH 221 and 305) or consent of instr. An introduction to modern ideas of algebra through the study of groups, rings, and fields.

**UG 432 (MATH 422) Abstract Algebra II 4 cr.** Offered spring. Prereq., M 431 (MATH 421). Continues the investigation of groups, rings, and fields begun in M 431 (MATH 421). Further topics include vector spaces and field extensions.

**UG 439 (MATH 431) Euclidean and Non–Euclidean Geometry 3 cr.** Offered autumn. Prereq., M 307 (MATH 305); M 231 (MATH 231) recommended. Euclidean geometry from a rigorous, axiomatic viewpoint and Non–Euclidean geometries chosen from Lobachevskian, projective, finite and Riemannian.

**UG 440 (MATH 471) Numerical Analysis 4 cr.** Offered intermittently. Prereq., M 307, 311 (MATH 305, 311), one computer language. Error analysis; approximation and interpolation, numerical solution of linear and non-linear equations, numerical integration of ordinary and partial differential equations.

**UG 445 (MATH 475) Statistical, Dynamical, and Computational Modeling 4 cr.** Offered autumn odd-numbered years. Prereq., consent of instr. An interdisciplinary course on the integration of statistical and dynamical models with applications to biological problems. Linear and nonlinear models, estimation, systems of ordinary differential equations, numerical integration, bootstrapping, MCMC methods. Intended both for students in mathematics and the natural

sciences.

**UG 472 (MATH 452) Introduction to Complex Analysis 4 cr.** Offered spring. Prereq., M 273 (MATH 251), M 307 (MATH 305). Analytic functions, complex integration, singularities and application to contour integration, harmonic functions, spaces of analytic functions.

**UG 473 (MATH 451) Introduction to Real Analysis 4 cr.** Offered autumn odd-numbered years. Prereq., M 273 (MATH 251), M 307 (MATH 305). Theory of metric spaces and point set topology, Riemann-Stieltjes integral, sequences and series of functions. Stone-Weierstrass theorem, theorem of Arzela-Ascoli, introduction to Lebesgue integration.

**UG 485 Graph Theory 3 cr.** Offered autumn. Prereq., M 325, or M 307 and M 361 (MATH 325, or MATH 305 and 381), or consent of instr. Theory and applications of graphs. Topics chosen from trees, matchings, connectivity, coloring, planarity, Ramsey theory, random graphs, combinatorial designs and matroid theory.

**U 490 Undergraduate Research 1-4 cr.** (R-12) Offered every term. Prereq., consent of instr. Undergraduate research in the mathematical sciences under the direction of a faculty member. Graded credit/no credit.

**UG 491 (MATH 495) Special Topics Variable cr.** (R-9) Offered autumn and spring. Prereq., consent of instr. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

**U 492 (MATH 496) Independent Study Variable cr.** (R-9) Offered autumn and spring. Prereq., consent of instr. Guidance of an individual student in doing independent study on material not offered in a regular course

**U 494 Seminar Variable cr.** (R-9) Offered autumn and spring. Prereq., consent of instr.

**U 498 Internship Variable cr.** Offered autumn and spring. Prereq., consent of instr. Extended classroom experience which provides practical application of classroom learning during placements off campus. Prior approval must be obtained from the faculty supervisor and the Internship Services office. A maximum of 6 credits of Internship (198, 298, 398, 498) may count toward graduation.

**U 499 Senior Thesis Variable cr.** (R-12) Offered autumn and spring. Prereq., consent of instr. Senior thesis for mathematics majors and/or Watkins Scholars.

**G 500 Current Mathematical Curricula 3 cr.** Offered intermittently. Prereq., teacher certification or consent of instructor. [Analysis of contemporary materials for secondary school mathematics: the goals, the mathematical content, alternative methodologies, and curriculum evaluation.](#)

**G 501 Technology in Mathematics for Teachers 3 cr.** Offered intermittently. Prereq., teacher certification or consent of instructor. Technology usage when it is appropriate and when it is not. Experience is provided with scientific calculators, graphing utilities, computers, and identification of exemplary software.

**G 504 Topics in Math Education Variable cr.** (R-12) Offered intermittently. Prereq., teacher certification. Topics of current interest which may include calculus, number theory, probability and statistics, geometry, or algebra, at a level suitable for teachers.

**G 506 Topics in Integrated Mathematics and Science Variable cr.** (R-6) Offered intermittently. Prereq., teacher certification or consent of instructor. Mathematical concepts and their applications in life sciences, astronomy, physical sciences, and environmental sciences.

**G 510 Problem Solving for Teachers 3 cr.** Offered intermittently. Prereq., teacher certification or consent of instructor. Strategies for problem solving, problem posing in a variety of situations, modeling and applications. Problems are selected from various areas of mathematics.

**G 511 Advanced Mathematical Methods I 3 cr.** Offered autumn odd-numbered years. Prereq., M 311, and 412 or 414 (MATH 311, and 412 or 414). Methods in applied mathematics related to the qualitative and quantitative solution of

nonlinear and differential integral equations, dynamical systems, and perturbation methods. Applications of these methods to other sciences.

**G 512 Advanced Mathematical Methods II 3 cr.** Offered spring even-numbered years. Prereq., M 511 (MATH 511). Continuation of M 511 (MATH 511).

**G 514 Topics in Applied Mathematics Variable cr.** (R-12) Offered autumn even-numbered years. Prereq., consent of instr. or M 511-512 (Math 511–512). Topics of current interest in applied mathematics, mathematical modeling, dynamic modeling, and optimal management in stochastic or deterministic environments.

**G 520 Algebra for Teachers 3 cr.** Offered intermittently in summer. Prereq., M 431 (MATH 421) or equiv. Topics include algebraic number fields, linear algebra topics, and applications appropriate for secondary teachers.

**G 521 Advanced Algebra I 3 cr.** Offered alternate years. Prereq., M 432 (MATH 422) or consent of instr. Topics covered include group theory, field theory and Galois theory.

**G 522 Advanced Algebra II 3 cr.** Offered alternate years. Prereq., M 521 (MATH 521) or consent of instr. Continuation of 521; rings, modules, commutative algebra, and further topics.

**G 524 Topics in Algebra I 3 cr.** (R-6) Offered alternate years. Prereq., M 432 (MATH 422) or consent of instr. Topics have included algebraic geometry, commutative ring theory and advanced linear algebra.

**G 525 Topics in Algebra II 3 cr.** (R-6) Offered alternate years. prereq., M 524 (MATH 524) or consent of instr. Continuation of M 524 (MATH 524).

**G 526 Discrete Mathematics for Teachers 3 cr.** Offered intermittently in summer. Prereq., M 307 (MATH 305) or consent of instr. Elements and operations of finite structures, combinatorics, recursion, graph theory, matrix representations, and finite state transition models.

**G 530 Geometries for Teachers 3 cr.** Offered intermittently in summer. Prereq., M 439 (MATH 431) or equiv. Comparison of synthetic, analytic, vector, and transformational approaches to geometry. Includes classification of geometries, geometric representations, axiomatics, and the applications of modern geometries.

**G 531 Topology 3 cr.** Offered autumn even-numbered years. Prereq., M 473 (MATH 451) or consent of instr. Set theory, topological spaces, metrizable, continuous mappings and selected topics.

**G 532 Algebraic Topology 3 cr.** Offered spring alternate years. Prereq., M 431 (MATH 421) and M 531 (MATH 531) or consent of instr. Introduction to algebraic topology through one or more topics chosen from the fundamental group and higher homotopy groups, singular homology, and simplicial homology.

**G 550 Analysis for Teachers 3 cr.** Offered intermittently in summer. Prereq., M 273 (MATH 251) or equiv. Notions of limits, continuity, differentiation, and integration in  $\mathbb{R}^n$ .

**G 551 Real Analysis 3 cr.** Offered spring even-numbered years. Prereq., M 473 or 472 (MATH 451 or 452) or consent of instr. Measure theory, abstract integration theory, theory of  $L_p$ -spaces.

**G 555 Functional Analysis 3 cr.** Offered spring odd-numbered years. Prereq., M 473 or 472 (MATH 451 or 452) or consent of instr. Normed linear spaces, linear functionals, separation theorems, topological linear spaces, weak topologies, dualities.

**G 564 Topics in Analysis 3 cr.** (R-12) Offered autumn odd-numbered years. Prereq., consent of instr. Research projects or topics in analysis. May include but not restricted to Banach algebras, Fourier analysis, Harmonic analysis, Hilbert space theory, integral equations, or operator theory.

**G 570 Calculus for Middle School Teachers 3 cr.** Offered online in full-year format. Prereq., teacher certification or consent of instr. A first course in differential and integral calculus. Concepts, definitions, properties, and elementary

applications of the calculus of single-valued real variables.

**G 572 Algebra for Middle School Teachers 3 cr.** Offered intermittently in summer. Prereq., teacher certification or consent of instr. Topics include algebraic number fields, linear algebra topics, polynomials, and applications appropriate for teachers of middle school mathematics.

**G 573 Geometry for Middle School Teachers 3 cr.** Offered intermittently in summer. Prereq., teacher certification or consent of instr. Introduction to synthetic, analytic, vector, and transformational approaches to geometry. Includes topics in 2- and 3-dimensional geometry and measurement appropriate for teachers of middle school mathematics.

**G 574 Probability and Statistics for Middle School Teachers 3 cr.** Offered intermittently in summer. Prereq., teacher certification or consent of instr. A survey of topics in probability and statistics appropriate for teachers of middle school mathematics.

**G 578 Discrete Mathematics for Middle School Teachers 3 cr.** Offered intermittently. Prereq., teacher certification or consent of instr. Elements and operations of finite structures, combinatorics, recursion, graphs, matrices, and finite models appropriate for teachers of middle school mathematics.

**G 581 Combinatorics 3 cr.** Offered autumn odd-numbered years. Prereq., consent of instr. Theory and applications of discrete mathematics. Topics chosen from enumeration, combinatorial analysis, and graph theory.

**G 582 Optimization 3 cr.** Offered autumn even-numbered years. Prereq., consent of instr. Theory and applications of optimization. Topics chosen from linear, non-linear, and discrete optimization, including duality theory, convexity and networks.

**G 584 Topics in Combinatorics and Optimization 3 cr.** (R-12) Offered spring odd-numbered years. Prereq., consent of instr. Topics chosen from the areas of combinatorics and optimization. May include classical problems, current trends, research interests or other topics chosen by the instructor.

**G 593 Professional Project Variable cr.** (R-6) Offered autumn and spring. Prereq., consent of advisor.

**G 595 Special Topics Variable cr.** (R-12) Offered autumn and spring. Prereq., consent of instr. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

**G 596 Independent Study Variable cr.** (R-12) Offered autumn and spring. Prereq., consent of instr.

**G 597 Research Variable cr.** (R-12) Offered autumn and spring. Prereq., consent of instr.

**G 598 Internship Variable cr.** (R-12) Offered autumn and spring. Prereq., consent of department. Extended classroom experience which provides practical application of classroom learning during placements off campus. Prior approval must be obtained from the faculty supervisor and the Internship Services office.

**G 599 Thesis Variable cr.** (R-6) Offered autumn and spring. Prereq., consent of instr.

**G 600 Mathematics Colloquium 1 cr.** (R-3) Offered autumn and spring. Prereq., consent of advisor.

**G 602 Teaching College Mathematics 3 cr.** Prereq., second year standing in graduate school. Topics include publishing, grant writing, writing in mathematics classes, media use in mathematics, evaluation and assessment of curricular materials and programs, instructional methods in university mathematics courses, and other selected topics.

**G 605 Learning Theories in Mathematics 3 cr.** Prereq., graduate status. How children learn mathematical content and processes. Models of mental development, concept formation, problem solving, reasoning, and creative thinking.

**G 606 Current Topics in the History of Mathematics 3 cr.** Examination of mathematical history topics from the latter part of the 20th century. Discussions may focus on the impact of Hilbert's Problems. Research on current mathematics.

**G 609 Research Methods in Mathematics Education 3 cr.** Prereq., Consent of instr. Resources for learning of reported

research, critical reviews of research, quantitative and qualitative processes.

**G 610 Graduate Seminar in Applied Mathematics Variable cr.** (R–12) Offered autumn and spring. Prereq., consent of instr.

**G 620 Graduate Seminar in Algebra Variable cr.** (R–12) Offered autumn and spring. Prereq., consent of instr.

**G 630 Graduate Seminar in Geometry/Topology Variable cr.** (R–12) Offered autumn and spring. Prereq., consent of instr.

**G 650 Graduate Seminar in Analysis Variable cr.** (R–12) Offered autumn and spring. Prereq., consent of instr.

**G 670 Graduate Seminar in Numerical Analysis Variable cr.** (R–12) Offered autumn and spring. Prereq., consent of instr.

**G 680 Graduate Seminar in Combinatorics and Optimization Variable cr.** (R–12) Offered autumn and spring. Prereq., consent of instr.

**G 690 Supervised Internship Variable cr.** (R–6) Offered autumn and spring. Prereq., consent of department. Supervised Teaching Internship.

**G 691 Research Methods in Mathematics Education 3 cr.** Prereq., consent of instr. Resources for learning of reported research, critical reviews of research, quantitative and qualitative processes.

**G 694 Seminar Variable cr.** (R–12) Offered autumn and spring. Prereq., consent of instr.

**G 699 Dissertation Variable cr.** (R–9) Offered autumn and spring.

#### Statistics (STAT)

**U 216 (MATH 241) Introduction to Statistics 4 cr.** Offered autumn and spring. Prereq., M 115 (MATH 117) or consent of instr. Introduction to major ideas of statistical inference. Emphasis is on statistical reasoning and uses of statistics.

**U 341 (MATH 341) Introduction to Probability and Statistics 3 cr.** Offered autumn and spring. Prereq., M 162 or 172 (MATH 150 or 153). Probability, probability models and simulation, random variables, density functions, special distributions, and a brief survey of estimation and hypothesis testing. Computer use integrated throughout.

**UG 421 (MATH 441) Probability Theory 3 cr.** Offered autumn. Prereq., M 273 (MATH 251) and STAT 341 (MATH 341) or consent of instr. An introduction to probability, random variables and their probability distributions, estimation and hypothesis testing. This course is the foundation on which more advanced statistics courses build.

**UG 422 (MATH 442) Mathematical Statistics 3 cr.** Offered spring. Prereq., STAT 421 (MATH 441). Continuation of 421.

**UG 451 (MATH 444) Statistical Methods I 3 cr.** Offered autumn. Prereq., one year of college mathematics including M 115 (MATH 117) or equiv. course in probability or consent of instr. May not be counted toward a major in mathematics. Intended primarily for non-mathematics majors who will be analyzing data. Graphical and numerical summaries of data, elementary sampling, designing experiments, probability as a model for random phenomena and as a tool for making statistical inferences, random variables, basic ideas of inference and hypothesis testing.

**UG 452 (MATH 445) Statistical Methods II 3 cr.** Offered spring. Prereq., STAT 451 (MATH 444). Continuation of STAT 451 (MATH 444). May not be counted toward a major in mathematics. Multiple regression, experimental design, analysis of variance, other statistical models.

**UG 457 (MATH 447) Computer Data Analysis I 1 cr.** Offered autumn. Coreq., STAT 451 (MATH 444) or consent of instr. An introduction to software for doing statistical analyses. Intended primarily for students in STAT 451 (MATH 444).

**UG 458 (MATH 448) Computer Data Analysis II 1 cr.** Offered spring. Coreq., STAT 452 (MATH 445) or consent of instr.

Continuation of STAT 457 (MATH 447). Intended primarily for students in STAT 452 (MATH 445).

**G 540 (MATH 540) Probability and Statistics for Teachers 3 cr.** Offered intermittently in summer. Prereq., STAT 341 (MATH 341) or equiv. A survey of modern topics in probability and statistics. Emphasis will be on applications of statistics in real situations.

**G 541 (MATH 541) Advanced Mathematical Statistics 3 cr.** Offered intermittently. Prereq., STAT 422 (MATH 442). Advanced theory of estimation and hypothesis testing including large sample theory.

**G 542 (MATH 542) Applied Linear Models 3 cr.** Offered autumn even-numbered years. Prereq., STAT 422 (MATH 442) or consent of instr. Numerical and graphical data summaries, simple linear and multiple regression and analysis of variance, including estimation, hypothesis testing, residual analysis, diagnostics, and model-building strategies. Use of the computer and real data sets integrated throughout.

**G 543 (MATH 543) Applied Multivariate Statistical Analysis 4 cr.** Offered spring even-numbered years. Prereq., STAT 452 or 422 (MATH 445 or MATH 442), or consent of instr. Introduction to multivariate statistical methods and applications. Includes appropriate linear algebra, random vectors, multivariate normal distribution, multivariate ANOVA, principal components, clustering, discriminant analysis, and related topics. Use of the computer and real data sets integrated throughout. Intended for students in mathematics and in other fields.

**G 544 (MATH 544) Topics in Probability and Statistics 3 cr.** (R-12) Offered intermittently. Prereq., STAT 422 (MATH 442) and consent of instr. May include theory of nonparametric statistics, generalized linear models, stochastic processes or other topics chosen by the instructor.

**G 545 (MATH 545) Theory of Linear Models 3 cr.** Offered autumn odd-numbered years. Prereq., STAT 422 (MATH 442). Multivariate normal distribution, distribution of quadratic forms, estimation and hypothesis testing in the full rank and less than full rank general linear models.

**G 547 (MATH 547) Applied Nonparametric Statistics 3 cr.** Offered autumn odd-numbered years. Prereq., STAT 421 or 452 (MATH 441 or 445) or consent of instr. Statistical estimation and inference based on ranks and elementary counting methods. Applications to a variety of situations including one- and two-sample, correlation, regression, analysis of variance, and goodness-of-fit problems. Use of the computer and real data sets integrated throughout. Intended for students in mathematics and in other fields.

**G 549 (MATH 549) Applied Sampling 3 cr.** Offered autumn even-numbered years. Theory and application of methods for selecting samples from populations in order to efficiently estimate parameters of interest. Includes simple random, systematic, cluster, stratified, multistage, line transect, distance and adaptive sampling. Use of the computer and real data sets integrated throughout. Intended for students in mathematics and in other fields.

**G 640 (MATH 640) Graduate Seminar in Probability and Statistics Variable cr.** (R-12) Offered autumn and spring. Prereq., consent of instr.

#### Faculty

##### Professors

Jonathan Graham, Ph.D., North Carolina State University, 1995

James J. Hirstein, Ed.D., University of Georgia, 1976

Leonid Kalachev, Ph.D., Moscow State University, 1987 (Chair)

P. Mark Kayll, Ph.D., Rutgers University, 1994

Jennifer McNulty, Ph.D., University of North Carolina at Chapel Hill, 1993

D. George McRae, Ph.D., University of Washington, 1967

David A. Patterson, Ph.D., University of Iowa, 1984

Bharath Sriraman, Ph.D., Northern Illinois University, 2002

Emily Stone, Ph.D., Cornell University, 1989

Karel M. Stroethoff, Ph.D., Michigan State University, 1987

Thomas Tonev, Ph.D., Moscow State University, 1973

Nikolaus Vonessen, Ph.D., Massachusetts Institute of Technology, 1988

**Associate Professors**

John Bardsley, Ph.D., Montana State University, 2002

Eric Chesebro, Ph.D., University of Texas at Austin, 2006

Jennifer Halfpap, Ph.D., University of Wisconsin, 2005

Solomon Harrar, Ph.D., Bowling Green State University, 2004

Kelly McKinnie, Ph.D., University of Texas at Austin, 2006

Greg St. George, Ph.D., The University of Montana, 1989

Brian Steele, Ph.D., The University of Montana, 1995

Ke Wu, Ph.D., University of Minnesota, 2008

**Lecturers**

Lauren Fern, M.S., Northern Illinois University, 1994

Cindy Leary, M.A., The University of Montana, 2006

Regina Souza, Ph.D., Massachusetts Institute of Technology, 1990

Bonnie Spence, M.A., University of Tulsa, 1991

**Emeritus Professors**

William R. Ballard, Ph.D., University of Chicago, 1957

Richard W. Billstein, Ed.D., The University of Montana, 1972

Charles A. Bryan, Ph.D., University of Arizona, 1963

William R. Derrick, Ph.D., Indiana University, 1966

Rudy A. Gideon, Ph.D., University of Wisconsin, 1970

Stanley I. Grossman, Ph.D., Brown University, 1969

Gloria C. Hewitt, Ph.D., University of Washington, 1962

Don O. Loftsgaarden, Ph.D., Montana State University, 1964

Johnny W. Lott, Ph.D., Georgia State University, 1973

Robert W. McKelvey, Ph.D., University of Wisconsin 1954



William M. Myers, Jr., Ph.D., Ohio State University, 1952

Howard E. Reinhardt, Ph.D., University of Michigan, 1959

George F. Votruba, Ph.D., University of Michigan, 1964

I. Keith Yale, Ph.D., University of California, Berkeley, 1966

## Department of Military Science

- Requirements for a Minor
- Courses
- Faculty

**Reserve Officers Training Corps, Micheal Swinson, Chair**

[This section of the catalog was edited after the catalog was published. Updated September 17, 2012.](#)

Army ROTC (Reserve Officers' Training Corps) offers college students the opportunity to serve as commissioned officers in the U.S. Army, the Army National Guard, or the U.S. Army Reserve upon graduation. ROTC enhances a student's education by providing unique leadership and management training, along with practical leadership experience. Students develop many of the qualities basic to success while earning a college degree and an officer's commission at the same time.

**Four-Year Program.** The four-year Army ROTC program consists of two parts, the Basic Course and the Advanced Course.

**The Margin of Difference.** Army ROTC cadets learn to be leaders and receive hands-on experience in managing physical, financial, and human resources. They develop self-confidence and superior decision-making skills. Employers value these leadership qualities and recognize the associated potential in ROTC graduates.

**Basic Course.** The basic course is normally taken during the first two years of college and may be taken without incurring any military obligation. This course covers such subjects as management principles, national defense, military history, and leadership development. Basic course classes include adventure training such as rappelling, squad tactics and small arms marksmanship. Additional opportunities are also available to conduct small unit training exercises throughout Western Montana. In addition, a variety of outside social and professional enrichment activities are available. All necessary ROTC textbooks, uniforms, and other essential materials for the basic course are furnished to students at no cost. After completing the basic course, students who have demonstrated the potential to become officers and who have met the physical and scholastic standards are eligible to enroll in the Advanced Course. Compression of the Basic Course into two semesters may be arranged for those students who did not take military science courses during their Freshman year.

**Advanced Course.** The Advanced Course is usually taken during the final two years of college. Instruction includes organization and management, tactics, ethics, critical thinking, creative problem solving and further leadership development. Uniforms and equipment in the Advanced Course are furnished to students at no cost. During the summer between their junior and senior years of college, Advanced Course cadets attend the Leader Development and Assessment Course (LDAC), a fully paid four-week leadership practicum. LDAC gives cadets the chance to apply what they have learned in the classroom and introduces them to Army life while also receiving academic credit. Completion of the Advanced Course requires two years of study. Each cadet in the Advanced Course receives a subsistence allowance of up to \$4,500 for each year of attendance.

**Two-Year Program.** The two-year program is applies to incoming juniors and community college graduates, students at four-year colleges who did not take ROTC during their first two years of school, and students entering a two-year postgraduate course of study. To enter the two-year program, students must attend a fully paid four-week Leadership Training Course (LTC), normally held during the summer between their sophomore and junior years of college. At LTC,

students learn to challenge themselves physically and mentally, and to build their confidence and leadership skills. After successfully completing LTC, students who meet all the necessary enrollment requirements may participate in the Advanced Course.

**Scholarships and Financial Assistance.** Army ROTC scholarships are offered for four, three and two years and are awarded on a competitive basis. Each scholarship pays 100% of student's tuition and fees, \$1200 a year for textbooks and supplies, and a monthly stipend totaling up to \$4,500 per year while the scholarship is in effect. Four-year scholarships are awarded to students who will be entering college as freshmen. Two and three-year scholarships are awarded to students already enrolled in college and to Army enlisted personnel on active duty. Additionally, students who attend the LTC of the two-year program may compete for two-year scholarships while at the course. Scholarship recipients can pursue degrees in any accredited four year program at the University of Montana. Students who receive scholarships are required to attain undergraduate degrees in the fields in which their scholarships were awarded.

**Veterans.** Veterans may apply their military experience as credit toward the ROTC Basic Course. If eligible, a veteran may enroll directly into the Advanced Course.

**Simultaneous Membership Program.** This program allows students to be members of the Army National Guard or the Army Reserve and to enroll in Army ROTC at the same time. Students participating in the Simultaneous Membership Program receive up to \$4,500 per year in tuition assistance, \$4,500 per year in monthly stipends and an additional \$20,000 per year in other benefits. There are also scholarships available for students participating in the Simultaneous Membership Program that are interested in staying in the Army National Guard or the Army Reserve upon graduation that pay up to \$8,000 per year for living expenses and \$1,200 per year for textbooks, supplies and other equipment. These scholarships are in addition to the current benefits students receive as part of the Simultaneous Membership Program.

**Service Obligation.** There is no military service obligation for basic course students, unless on scholarship. Advanced course and scholarship (contracted) students incur an obligation to serve in the active Army, Army Reserve or National Guard.

**Commission Requirements.** In order to earn a commission as a Second Lieutenant in the United States Army, each student must:

1. Complete all required Military Science instruction while attending college as a full-time student, and obtain a baccalaureate or higher degree.
2. Meet medical and physical fitness standards.
3. Be a U.S. citizen.
4. Successfully complete the Leadership Development and Assessment Course.
5. Be recommended by the Professor of Military Science.

#### **Requirements for a Minor**

**Foundational Courses:** In order to enroll in courses leading to the Military Science minor, students should complete MSL 101, 102, 201, 202 and 215. The department may award experiential credit for these courses: prior military service, Advanced Individual Training (AIT), Leader's Training Course (LTC) or Accelerated Cadet Commissioning Training (ACCT).

**Grade Requirements:** Obtain a grade of "C" or better in all courses used toward the minor, and a cumulative GPA of 2.5 for Military Science courses.

**Credit Hour Requirements:** A minimum of 19 hours in Military Science courses as outlined below.

#### **Required Courses (19 hours)**

- MSL 301 Adaptive Team Leadership *with Lab* (4)
- MSL 302 Leadership in Changing Environments *with Lab* (4)
- MSL 401 Developing Adaptive Leaders *with Lab* (4)

- MSL 402 Leadership in a Complex World *with Lab* (4)
- HSTA 333 (HIST 368) Key Events in American Military History (3)

Or

- HSTA 316 (HIST 355) American Civil War Era (3)

**History/Political Science Requirement:** A minimum of a combined 6 credits in History and Political Science. Students must complete at least 3 credits from each discipline with at least 3 credits of upper division coursework in addition to the required history course. Students may choose from the following courses:

- HSTR 272E (HIST 226E) Terrorism: Violence in the Modern World (3)
- HSTR 301 (HIST 302H) Ancient Greece (3)
- HSTR 304 (HIST 303H) Ancient Rome (3)
- HSTR 374E (HIST 334E) War, Peace, and Society (3)
- HSTA 316 (HIST 355) American Civil War Era (3)
- HSTA 333 (HIST 368) Key Events in American Military (3)
- PSCI 230X (PSC 130E) Introduction to International Relations (3)
- PSCI 335 (PSC 335) American Foreign Policy (3)

~~**Foreign Language Requirement:** A minimum of 5 Credits in a Foreign Language. Students may pick from any language offered in the course catalog.~~

### Military Science Leadership (MSL)

A total of 24 credits are allowed toward the bachelor degree for contracted students. A total of 12 credits are allowed toward the bachelor degree for non-contracted students.

#### Suggested Course of Study

<b>First Year</b>		<b>A S</b>
MSL 101 American Defense Establishment	3 -	
MSL 102 Introduction to Leadership	- 3	
MSL 315 Drill & Conditioning	1 1	
<b>Second Year</b>		<b>A S</b>
MSL 201 Team Leadership	3 -	
MSL 202 Fundamentals of Tactical Leadership	- 3	
MSL 315 Drill & Conditioning	1 1	
<b>For Advanced Course Military Science Students:</b>		<b>A S</b>
<b>Third Year</b>		
MSL 301 Adaptive Team Leadership	3 -	
MSL 302 Leadership in a Changing Environment	- 3	
MSL 303 Advanced Leadership Laboratory	1 1	
MSL 315 Drill & Conditioning	1 1	
<b>Fourth Year</b>		<b>A S</b>
MSL 401 Developmental Leadership	3 -	
MSL 402 Officership and Ethics	- 3	
MSL 404 Advanced Leadership Practicum	1 1	
MSL 315 Drill & Conditioning	1 1	

#### Courses

U = for undergraduate credit only, UG = for undergraduate or graduate credit, G = for graduate credit. R after the credit indicates the course may be repeated for credit to the maximum indicated after the R. Credits beyond this maximum do not count toward a degree.

#### Military Science Leadership (MSL)

A total of 24 credits are allowed toward the bachelor degree for contracted students. A total of 12 credits are allowed toward the bachelor degree for non-contracted students.

**U 101 American Defense Establishment 3 cr.** Offered autumn. The Constitutional role of the military, military tradition, current defense posture, service roles and missions. An introduction to issues and competencies that are central to a commissioned officer's responsibilities. Establishes framework for understanding officership, leadership and army values.

**U 102 Introduction to Leadership 3 cr.** Offered spring. Establishes foundation of basic leadership fundamentals such as problem-solving, communications, goal setting and improving listening techniques. Introduction to the principles of military leadership and organizational values through discussion, observation and practice exercises.

**U 195 Special Topics Variable cr.** (R-6) Offered autumn and spring. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

**U 201 Team Leadership 3 cr.** Offered autumn. Demonstration and practice of individual military leadership skills with emphasis on communication and observation through experiential learning exercises. Establishes framework for understanding of "life skills" such as physical fitness and time management. Examination and practical application of tasks training and military style briefings.

**U 202 Foundations of Tactical Leadership 3 cr.** Offered spring. Building successful teams through influencing actions and effective communication in setting and achieving goals. Use of creativity in the problem solving process. Introduction of individual and team aspects of military tactics in small unit operations. Practical exercises in techniques for training others as an aspect of continued leadership development.

**U 203 Ranger Challenge 2 cr.** (R-4) Offered autumn. Practical hands-on training in one rope bridge, land navigation, military weapons assembly/disassembly and physical conditioning. A team selected from this class will represent the University in competition against four other colleges and universities within the Big Sky Task Force. Students may include up to, but not more than, four credits earned in the HHP 100-179 and DANC 325 (DRAM 385) activity courses and MSL 203 and 315 in the total number of credits required for graduation. Students must be physically qualified and enrolled in an additional MSL academic class.

**U 204 Leadership Practicum 1-4 cr.** (R-4) Offered autumn and spring. Prereq., consent of instr. Intensive supervised study in applied leadership and management development in an organizational setting.

**U 295 Special Topics Variable cr.** (R-6) Offered spring. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

**U 301 Tactical Leadership 3 cr.** Offered autumn. Prereq., consent of instr. Coreq., MSL 303. Developing personal leadership principles through the learning and application of various small unit leadership procedures. Fundamentals of leadership development, land navigation, troop leading, small units tactics, rappelling, rifle marksmanship and physical fitness. Study of the organization and operation of the U.S. Army as a profession. Students are required to attend one weekend field exercise during the semester.

**U 302 Leadership in Changing Environments 3 cr.** Offered spring. Prereq., consent of instr. Coreq., MSL 303. Continuation of the study and application of small unit leadership tasks. Advanced leadership skills taught including medical evacuation procedures, radio procedures, and increased involvement in planning and executing military operations in preparation for attendance at the Leader Development and Assessment Course at Fort Lewis, Washington. Students participate in rifle marksmanship instruction including qualification with the M16A2 rifle, rappelling, and attend one weekend exercise with students from regional universities in the area and the Montana Army National Guard.

**U 303 Leadership Laboratory 1 cr.** (R-4) Offered autumn and spring. Prereq., consent of instr. Coreq., MSL 301, 302, 401, or 402E. Practical application of skills learned in the classroom.

**U 315 Drill and Conditioning 1 cr.** (R-4) Offered autumn and spring. The study and application of military drill and ceremony: formation, ceremonies, and marching; the study of the fundamentals of the military physical conditioning program, and the practical application of skills learned. Physical education activity course; a maximum of four credits of activity courses may be counted toward graduation.

**U 395 Special Topics Variable cr.** (R–9) Offered autumn and spring. Experimental offerings of visiting professors, experimental offerings of new courses, or one–time offerings of current topics.

**U 401 Developmental Leadership 3 cr.** Offered autumn. Prereq., consent of instr.; coreq., MSL 303. The application of leadership principles and techniques involved in leading young men and women in today's Army. Students explore training management. methods of effective staff collaboration and development counseling techniques. Develops student proficiency in planning and executing complex operations, functioning as a member of a staff and mentoring subordinates. Restricted to contracted Military Science students.

**U 402E Officership and Ethics 3 cr.** Offered spring. Prereq., consent of instr., coreq., MSL 303. Study includes case study of military law and practical exercises on establishing an ethical command climate. Examines the role communications, values and ethics play in effective leadership. Students complete a semester long Senior Leadership Project that requires them to plan, organize, collaborate, analyze and demonstrate their leadership skills. Restricted to contracted Military Science students.

**U 404 Advanced Leadership Practicum Variable cr.** (R–4) Offered every term. Prereq., consent of instr. Required study and internship in military tactics, leadership and organizational behavior. Supervised by active duty military officers.

#### **Faculty**

##### **Professor**

Micheal Swinson, M.A., U.S. Naval War College, 2009 (Chair)

##### **Assistant Professors**

Tracy Mitchell, B.A., Carroll College, 2000

Joseph DeCree, B.S., Indiana University of Pennsylvania, 1987

Thomas Luhrsen, M.A. Webster University 2011

Travis Hambrick, US Army Sergeant Major Academy, 2009

Galen Bisel, US Army Senior Leaders Course Course, 2009

### **Department of Modern and Classical Languages Literatures**

- Major Degree Requirements
- Minor Degree Requirements
- Courses
- Faculty

[This section of the catalog was edited after the catalog was published. Updated July 26, 2012.](#)

#### **Elizabeth Ametsbichler, Chair**

Instruction is offered in the following languages and literatures: Chinese, French, German, Classical Greek, Italian, Japanese, Latin, Russian and Spanish, as well as in linguistics, foreign literatures in English translation, film, and the study of foreign cultures. Undergraduate courses have been planned to meet the needs of students who began studying a language in high school as well as those who undertake such study for the first time at the University.

The courses are intended to serve several purposes: (1) Contribute to the general education of students by giving them an opportunity to gain insight into patterns of living and thinking which are different from their own; (2) Enable students to gain proficiency in the language; (3) Prepare candidates for careers in research and college teaching by providing a solid basis for graduate studies in the various languages; (4) Prepare future teachers of foreign languages; (5) Give language training requisite to careers in government, foreign commerce and library work; (6) Enable students to read foreign

publications and to meet graduate foreign language requirements in their field.

The Department of Modern and Classical Languages and Literatures offers undergraduate majors in Classics (Greek and Latin), French, German, Japanese, Russian, and Spanish. Within Classics, it is possible to elect options in Classical Languages (Latin and Greek), Classical Civilization, and Latin. There is an undergraduate minor in Chinese. The Master of Arts degree in Modern Languages and Literatures is offered with options in French, German, and Spanish. A master's degree with a concentration in any of the languages in which we offer a major may be obtained by means of the Master of Interdisciplinary Studies program.

**High School Preparation:** Credit is automatically granted for Advanced Placement scores of 3, 4, or 5. At each UM Orientation, the department offers a computerized placement/assessment examination in French, Spanish and German. Students also can arrange individually to take the CLEP exam, administered by Testing Services in French, German or Spanish.

These exams are not required, but serve one or more of three purposes:

1. **Exemption from the General Education Competency Requirement in Foreign Language:** if the student achieves a score that indicates a competence equivalent to the completion of French, German, or Spanish 102 (second semester). (See the General Education Requirements section of this catalog.)
2. **Placement for further study in the language:** the score achieved on this test is an accurate indicator of the course level at which language study should be resumed at the University (e.g. 102, 201, 202).
3. **Credit by examination:** A student with extensive language study may score high enough on the placement exam to qualify for University credits if she or he places into 202 or 301. By taking the course into which she or he placed (202 or 301) and receiving a B (3.00) or better, the student may then receive four by-pass credits (Pass grade only) for the preceding course (201 or 202).

Students who elect not to take this exam may:

1. Satisfy the General Education Competency Requirement in Foreign Language by successfully completing a University foreign language 102 (second semester) course.
2. Estimate their placement level for further study by the approximate equating of one year of high school study to one semester of university study. Students should consult with the department in making this estimate.

**Foreign Study Programs.** The Department of Modern and Classical Languages and Literatures offers programs of accredited study in Austria, China, Germany, Italy, Spain, Mexico, and Russia. Each program is supervised by a departmental faculty member, and is open to any student who meets the respective foreign language prerequisites. (There is no language prerequisite for the Study Abroad in Italy, but Italian is recommended.) Details concerning individual programs are available from the Department of Modern and Classical Languages and Literatures. The department also sponsors student exchanges with universities in France as well as work/study internships abroad for students in Japanese.

#### **Major Degree Requirements**

Refer to graduation requirements listed previously in the catalog. See index.

Total credits required for a major in a modern or classical language vary with the student's high school preparation or language credit transferred from another college or university. Requirements for academic majors are set forth below under the various languages. Requirements for teaching majors and minors also are listed under Curriculum and Instruction.

Courses submitted in fulfillment of major or minor requirements must be taken for a traditional letter grade.

Students are required to maintain a minimum overall GPA of 2.5 in all upper-division courses within their major language presented in fulfillment of requirements for the language major.

All majors must register in the department and be assigned a departmental major advisor. A student is not considered a major in the Department of Modern and Classical Languages and Literatures until he or she has registered with the

department.

\*\*Arabic is currently offered as part of the Central and Southwest Asian Studies Center, Department of Anthropology. For more information, please follow this link: <http://www.umt.edu/cswa/arabic>.

#### Classics

##### Classical Languages Option:

1. 1a. Emphasis in Latin: twelve credits in Latin beyond Latin 102, plus six credits in Greek beyond Greek 102.  
1b. Emphasis in Greek: twelve credits in Greek beyond Greek 102, plus six credits in Latin beyond Latin 102.
2. CLAS 155L, MCLG 160L and either 251L or MCLG 252L.
3. Twelve credits from HSTR 301, 302, 304 (HIST 302H, 301H, 303H) CLAS 320, 360H or ARTH 407 (ART 381H), or PHL 261Y (PHIL 251H) or PHL 363 (PHIL 362).
4. Students are required to maintain a minimum overall GPA of 2.5 in all upper-division courses presented in fulfillment of requirement for the Classics/Classical Languages major.
5. The upper-division Writing Expectation will be met by successfully completing HSTR 301, 302, 304 (HIST 302H, 301H, 303H) CLAS 320, 365 or PHL 363 (PHIL 362) with the consent of instructor.

##### Classical Civilization Option:

1. LATN 201 (LAT 211) or equivalent or GRK 201 (GRK 211) or equivalent or LATN 101–102 and GRK 101–102 or equivalent.
2. CLAS 155L, 160L, and either MCLG 251L or 252L.
3. Twelve credits from HSTR 301, 302, 304 (HIST 302H, 301H, 303H), CLAS 320, 360H, ARTH 407 (ART 381H) or PHL 261Y (PHIL 251H) or PHL 363 (PHIL 362). Students are encouraged to spread these credits among courses focusing on classical history, philosophy, art and literature.
4. Nine additional credits from recommended or specially approved courses. Recommended courses are CLAS 365 (MCLG 365); LATN 202 (LAT 212), 300; GRK 202 (GRK 212), 300; PHL 465, 466 (PHIL 461, 463).
5. Students are required to maintain a minimum overall GPA of 2.5 in all upper-division courses presented in fulfillment of requirements for the Classics/Classical Civilization major.
6. The upper-division Writing Expectation must be met by successfully completing HSTR 301, 302, 304 (HIST 302H, 301H, 303H) CLAS 320, 365 or PHL 363 (PHIL 362) with the consent of instructor.

##### Latin Option:

1. Fifteen credits in Latin beyond Latin 202, Greek 101–102 may account for 4 credits.
2. Latin 402, Advanced Prose Composition.
3. CLAS 155L, 160H and either CLAS 251L or 252L (MCLG 155L, MCLG 160H and either MCLG 251L or 252L).
4. HSTR 304 (HIST 303H) and ARTH 407 (381H).
5. Nine additional credits from recommended or specially approved courses. Recommended courses are HSTR 301, 302 (HIST 302H, 301H), 320, 360H, or 362; PHL 261, or 363 465, 466 (PHIL 251 or 362, 461, 463). Students are encouraged to spread these credits among courses focusing on classical history, philosophy, art and literature.
6. Students are required to maintain a minimum overall GPA of 2.5 in all upper-division courses presented in fulfillment of requirements for the Classics/Latin major.
7. The upper-division Writing Expectation must be met by successfully completing HSTR 301, 302, 304 (HIST 302H, 301H, 303H) CLAS 320, 365 or PHL 363 (PHIL 362) with the consent of instructor.

##### French

1. French 101 to 202 or equivalent.
2. At least 30 credits of upper-division courses in French, including 301 and 350 (formerly 302), three courses of the 310, 311, 312, 313 series, as well as 421 (formally 408), one 3-credit 400-level literature course and one 3-credit 400-level culture course or a second 3-credit 400-level literature course. Of these specifically required courses, at

least 6 credits must be completed in courses with UM French faculty.

3. A second modern or classical language is encouraged as a sequence of complementary electives to a major in French, but is not a requirement.
4. One semester of French history HSTR 352 or 353 (HIST 314 or 315) is encouraged as a complementary elective to a major in French, but is not a requirement.
5. Students are required to maintain a minimum overall GPA of 2.5 in all upper-division French courses presented in fulfillment of requirements for the French major.
6. The upper-division Writing Expectation must be met by successfully completing an upper-division writing course from the approved list in the Academic Policies and Procedures section of this catalog. See index.

#### **Linguistics Option:**

For a complete listing of Linguistics offerings see Linguistics.

1. FRCH 101 to 202 (FREN 101 to 202) or equivalent.
2. FRCH 401 (FREN 401) or approved equivalent.
3. Eighteen credits of Linguistics, including: LING 270 or 470, 471, 473.
4. A minimum of nine upper-division credits in French including FRCH 301, FRCH 350 and FRCH 421 (FREN 301, 302, 408).
5. Strongly recommended is at least one course in the history of Europe, preferably of France.

#### **German**

1. German 101 to 202 or equivalent.
2. At least 30 credits of upper-division work in German, including 301, 302 or 305, 311, 312 or 318, 400 (GERM 301, 302, 305, 311, 312, 313, 403) and at least two 3 credit courses in literature at the 400 level and at least two of the following culture courses: 332L, 351H, 352H, 350, 322L and/or 362Y (GERM 303, 304, 355, 361, 362).
3. Students are required to maintain a minimum overall GPA of 2.5 in all upper-division GRMN courses presented in fulfillment of requirements for the German major.
4. The upper-division Writing Expectation must be met by successfully completing either 351H or 352H (GERM 303 & 304).
6. [German majors are encouraged to participate in the German section's study abroad program to Germany/Austria that is offered every spring semester.](#)

#### **Japanese**

1. Japanese 101 to 202 or equivalent.
2. At least 26 credits of upper-division work in Japanese language courses and electives, including 301, 302, 411 (repeatable once), 412 or 415, and at least 12 credits from JPNS 306, 311, 312, 386, 390 (up to 3 credits only), 393 (up to 3 credits only), 412, 431, and 491. Japanese 391 also may be counted as an elective when the course is a Japanese literature, Japanese pedagogy/linguistics, or Japanese cultural course not part of basic Japanese language instruction.
3. Japanese 150H and at least two Asian studies or history courses on Japan or East Asia at any level not in the Modern and Classical Languages and Literatures Department: for example, HSTR 240, 343 (HIST 201H, 381H).
4. Students are required to maintain a minimum overall GPA of 2.5 in all upper-division JPNS courses presented in fulfillment of requirements for the Japanese major.
5. The upper-division Writing Expectation must be met by successfully completing an upper-division writing course from the approved list in the Academic Policies and Procedures section of this catalog. See index.

#### **Russian**

1. Russian 101 through 202 or equivalent.
2. RUSS/MCLG 105H: Intro to Russian Culture



3. At least 27 credits of upper–division work in Russian courses and electives, 15 of which must be in the target language and must include 301 and 302. The remainder of upper-division credits must include RUSS 494, two of the following: 308, 312L and 313L (306L and 307L), and one semester of Russian History.
4. Students are required to maintain a minimum overall GPA of 2.5 in all upper–division courses presented in fulfillment of requirements for the Russian major.
5. The upper–division Writing Expectation must be met by successfully completing RUSS 494: Seminar in Russian Studies.

#### Spanish

1. Spanish 101 through 202 or equivalent.
2. At least 30 credits of upper–division courses in Spanish, including 301, 326 (311L), 331 (312L) and three 3–credit literature or linguistics courses at the 400 level (not SPNS 408).
3. All Spanish majors must complete MCLG 315L, Major Hispanic Authors, in addition to the 30 hours in upper–division Spanish courses.
4. The sequential order of the following required courses must be followed: SPNS 326 (SPAN 311) and SPNS 331 (SPAN 312L) before any 400–level literature course; 301 before 408.
5. Students are required to maintain a minimum overall GPA of 2.5 in all upper–division courses presented in fulfillment of requirements for the Spanish major.
6. The upper–division Writing Expectation must be met by successfully completing an upper–division writing course from the approved list in the Academic Policies and Procedures section of this catalog. See index.
7. Spanish majors interested in Spanish–American literatures and cultures are encouraged to take MCLG 100H, 3 cr., Introduction to Latin American Studies, a requirement for students wishing to obtain the Latin American Studies minor. Students majoring in Spanish are also encouraged to check listings in anthropology, art, history, political science, sociology and other disciplines for additional courses that will fulfill the Latin American Studies minor. Students wishing to improve their facility in Spanish and earn credit toward their Spanish major or minor may wish to consider the Spanish section’s study abroad programs offered each spring semester in Mexico or Spain. (Contact the Department of Modern and Classical Languages and Literatures for further information on either the Latin American Studies minor or study abroad programs.)

#### Minor Degree Requirements

Minors are offered in Chinese, French, German, Japanese, Russian, Spanish, Classical Civilization, Latin, and Greek.

Total credits required for a minor vary by languages. These credits also vary with a student’s high school preparation or language credits transferred from another college or university. For example, a student in a modern language with experience equivalent to 101–102 and 201–202 need only complete the upper division requirements and any additional lower division courses. Students with no experience in a modern language, however, must first complete 101–102 and 201–202 before taking upper division courses. Following is a list of requirements for each language.

In French, 101, 102, 201, 202 and 15 upper–division credits. Courses must include 301, 302 (350), and two of the following: 310, 311, 312, 313, 338 (311L, 312L, 313L, 338) and one 400 level course.

In Chinese, 101–102, 201–202, and nine credits in upper–division Chinese literature courses. With prior approval, three of these credits may be in China–focused courses offered by other departments.

In German, 101, 102, 201, 202 and 15 upper–division credits. Courses must include 301, 302 or 305, 311, and 312 or 318, and one of the following culture courses: 332L, 351H, 352H, 350, 322L, or 362Y (303H, 304H, 355, 361L or 362H). Students must maintain a minimum overall GPA of 2.5 in these courses. Native or near–native speakers of German must substitute two 400–level literature courses for 301 and 302.

In Japanese, 101–102, 201–202 and 150H (JPNS 210H), as well as 9 credits in Japanese literature or other courses from among the following: JPNS 306, 311, 312, 386, 390 (up to 3 credits only), 393 (up to 3 credits only), 412, 431, and 491 (495). Students may substitute either Japanese 191 (195) (3 credits) or Japanese 291 (295) (3 credits) for one of the

above. Also permitted in substitution would be one course from outside the department, if it has a substantial Japan–related element: Asian studies, Japanese history, etc.

In Russian, 101, 102, 201, 202, and 12 upper-division credits.

In Spanish, 101 through 202 or equivalent and 18 upper–division credits. Courses must include 301, 326 or 331 (311L or 312L), and a 400–level literature or linguistics course.

To earn a minor in Classical Civilization the student must complete either Latin 101, 102 or Greek 101, 102; LS 151L, CLAS 160L (MCLG 160L), and PHL 261Y, 363 (PHIL 251H, 362); three (3) credits from HSTR 301, 302, 304 (HIST 302H, 301H, 303H); and nine additional credits from: CLAS 155L, 251L, 252L, 360H, 365 (MCLG 155L, 251L, 252L, 360H, 365); ARTH 407 (ART 381H); LATN 201, 202, 311 (LAT 211, 212, 300); GRK 201, 202,(211, 212) 300.

To earn a minor in Latin the student must complete LATN 101, 102, 201, 202 (LAT 101, 102, 211, 212) and 9 credits in courses numbered 300 and above.

To earn a minor in Greek the student must complete GRK 101, 102, 201, 202 (211, 212) and 9 credits in courses numbered 300 and above.

### **Teacher Preparation in Modern and Classical Languages**

**General Requirements for an Endorsement in the Extended Major, Major, and Minor Teaching Fields:** Students must gain admission to Teacher Education Program (see the College of Education section of this catalog). A departmental recommendation on the student's proficiency is required for student teaching. An overall minimum grade point average of 3.0 is required for upper division work. Students must meet the requirements for teaching licensure (see the College of Education section of this catalog.)

**Extended Major Teaching Field of French:** For an endorsement in the extended major teaching field of French, a student must complete the requirements for the B.A. with a major in French including FRCH 400 (FREN 401) and MCLG 410. Study in a French language country, provided either through the University's Study Abroad Program or an experience considered to be equivalent, also is required.

French qualifies for a single field endorsement. However, there is a limited demand in the majority of Montana high schools for teachers with a single endorsement in French. Students should complete the requirements for a second teaching endorsement (major or minor) in another field in more demand in high schools.

**Minor Teaching Field of French:** For an endorsement in the minor teaching field of French, a student must complete FRCH 101, 102, 201, 202, 301, 350, 400 (FREN 101,102, 201, 202, 301, 302, 401) and MCLG 410. Study in a French–language country, provided either through the University's Study Abroad Program or an experience considered to be equivalent, also is required.

**Extended Major Teaching Field of German:** For an endorsement in the extended major teaching field of German, a student must complete the requirements for the B.A. with a major in German plus LING 270S and MCLG 410. Study in a German language country, provided either through the University's Study Abroad Program or an experience considered to be equivalent, also is required. German qualifies for a single field endorsement. However, there is a limited demand in the majority of Montana high schools for teachers with a single endorsement in German. Students are encouraged to complete the requirements for a second teaching endorsement (major or minor) in another field in more demand in high schools.

**Minor Teaching Field of German:** For an endorsement in the minor teaching field of German, a student must complete GRMN 101, 102, 201, 202, 301, 302 or 305 (GERM 101,102, 201, 202, 301, 302 or 305); one of the following German culture courses: 351H, 352H, 350, 322L or 362Y (303, 304H, 355, 361L or 362H); GRMN 400 (GERM 403), LING 270S, and MCLG 410. Study in a German–language country, provided either through the University's Study Abroad Program or an experience considered to be equivalent, also is required.

**Major Teaching Field of Latin:** For an endorsement in the major teaching field of Latin, a student must complete the

requirements for the B.A. with a major in Classics, Latin option, and in addition, MCLG 410.

**Minor Teaching Field of Latin:** For an endorsement in the minor teaching field of Latin, a student must complete LATN 101, 102, 201, 202 (LAT 101, 102, 211, 212), 6 credits of LATN 311, 402, (LAT 300, 402) and MCLG 410.

**Major Teaching Field of Russian:** For an endorsement in the major teaching field of Russian, a student must complete the requirements for the B.A. with a major in Russian and MCLG 410.

**Minor Teaching Field of Russian:** For an endorsement in the minor teaching field of Russian, a student must complete RUSS 101, 102, 201 202, 301, 302, 312 (306L), and MCLG 410.

**Extended Major Teaching Field of Spanish:** For an endorsement in the extended major teaching field of Spanish, a student must complete the requirements for the B.A. with a major in Spanish including SPNS 301, 305, 400, 408 (SPAN 301, 302, 405, 408) and MCLG 410. Study in a Spanish language country, provided either through the University's Study Abroad Program or an experience considered to be equivalent, also is required. Spanish qualifies for a single field endorsement. However, there is a limited demand in the majority of Montana high schools for teachers with a single endorsement in Spanish. Students are encouraged to complete the requirements for a second teaching endorsement (major or minor) in another field in more demand in high schools.

**Minor Teaching Field of Spanish:** For an endorsement in the minor teaching field of Spanish, a student must complete SPNS 101 through 202 or equivalent, 301, 305, 326 or 331, 400 (SPAN 101 through 202, 301–302, 311L or 312, 405) and MCLG 410. Study in a Spanish–language country, provided either through the University's Study Abroad Program or an experience considered to be equivalent, also is required.

#### Suggested Course of Study

The following is a sample first year program to aid students in planning their first year before they arrive on campus and have the opportunity to work out a full four year course plan with their academic advisor. Each student intending to major or minor in a foreign language must consult with an advisor before registering. For any further information contact the Secretary, Department of Modern and Classical Languages and Literatures. For freshmen without previous training in the major language (French, German, Russian, Spanish):

First Year	A	S
Specific Recommendations:		
Major language 101–102 Elementary	5	5
LS 151L–152L Introduction to the Humanities	4	4
HSTR 101H-102H (HIST 104H–105H) Western Civilization I, II	4	4
WRIT 101 (ENEX 101) Composition	3	–
Suggested electives:		
LIT 110L-120L (ENLT 120L–121L) Intro to Lit/Poetry	(3)	(3)
CLAS 160L (MCLG 160L) Classical Mythology	(3)	(3)
General Education courses in Perspectives 1, 4, or 5	0–3	3–6
	16	16

#### Courses

U = for undergraduate credit only, UG = for undergraduate or graduate credit, G = for graduate credit. R after the credit indicates the course may be repeated for credit to the maximum indicated after the R. Credits beyond this maximum do not count toward a degree.

#### General (MCLG & CLAS)

These courses are given in English for the general student body and do not require knowledge of a foreign language. They do not count as language credit toward a B.A. degree in any given foreign language. For clarity, they are arranged below according to the section in which they are offered.

#### Classical Civilization (CLAS)

**U 155L Survey of Greek and Roman Literature 3 cr.** Offered every autumn. An introduction to the literature of classical

Greece and Rome. Readings in English translations of ancient works by Homer, Sophocles, Herodotus, Plato, Cicero, Vergil, Livy, and Ovid (and/or similar authors).

**U 160L Classical Mythology 3 cr.** Offered every spring and intermittently in summer. Same as LS 160L. Deities and myths of the Greeks and Romans, with emphasis on those of most importance to Western literature and art.

**U 161 Myth Seminar: Honors 1 cr.** Offered every spring. Same as LS 170. Coreq., MCLG/LS 160L. Research, writing, and discussion about the mythologies of the Greeks and Romans in a small group setting.

**U 251L The Epic 3 cr.** (R-6) Offered intermittently. Same as LS 251L. Reading, study and discussion of epic poems. Selections will vary from Western and non-Western traditions.

**U 252L Greek Drama: Politics on Stage 3 cr.** (R-6) Same as LS 252L. Offered intermittently. A study of the literary, artistic and political dimensions of Greek Tragedy and Comedy. Selections will vary.

**U 309 Reading the City: Rome 3 cr.** Offered autumn. Same as LS 309. Prereq., previous acceptance in subsequent intercession Italy program. Overview of the history of Rome from its beginnings until modern times, with lectures on various periods and artists across the spectrum of Italian art history. Orientation to the city of Rome, practicalities of life and study in the city.

**U 319 UM Students in Rome 1 cr.** Offered intermittently. Prereq., MCLG 309. Approximately three-week experience in Rome. Study of the classical, medieval, and modern city. Presentation of research on site.

**U 320 Women in Antiquity 3 cr.** Offered intermittently. Prereq., any one MCLG course in Classical Civilization or LATN 102 (LAT 102) or GRK 102 or consent of instructor. Same as LS and WGS 320. Examination of varied sources from Ancient Greece, the Hellenistic World, and republican and imperial Rome to clarify the place of women in communities. Women's contribution to community and the mechanisms by which communities attempted to socialize female populations.

**U 360H Ancient Greek Civilization and Culture 3 cr.** Offered intermittently. Prereq., ART 150H or 151H or consent of instr. Same as ART 380H and LS 340H. Slide-lecture course. Ancient Greek works of art and architecture, related to and explained by contemporary ideas and values of Greek society.

**U 361 Roman and Early Christian Art in Context 3 cr.** Offered intermittently. Prereq., ART 150H or 151H or consent of instr. Same as ART 381H and LS 341H. A survey of the various media used in Roman art; the social political, and economic contexts in which the media were developed; and the transition (technical, iconographic, and contextual) to the art of the Early Christian period.

**U 362 Ancient Greek and Roman Philosophy 3 cr.** Offered intermittently. Same as LS 362 and PHL 363 (PHIL 362). Examination of the thought of the philosophers of Greece and Rome as expressed in original works read in English translation. Ancient philosophy studied within its historical, linguistic and cultural setting.

**U 365E (MCLG 365) The Roots of Western Ethics 3 cr.** Offered intermittently. Prereq., lower-division course in Perspective 5 or consent of instr. Same as LS 325E. Studies of the origins of Western ethical thinking in the writings of Greek writers and their application to current situations.

**Courses in Classical Civilization taught by Classics faculty, but through other departments**

**U HSTR 301H (HIST 302H) Ancient Greek Social History 3 cr.** Offered intermittently. Various aspects of personal, social, and political life of classical times in Greece. Primary readings in various ancient authors supplemented by some audio-visual or other informational presentations. Cannot receive credit for both, HSTR 301H (HSTR 301) and MCLG 302H.

**U HSTR 302 (HIST 301H) Ancient Greece 3 cr.** Offered intermittently. Same as MCLG 301H. Greek history from the earliest times through the Macedonian ascendancy, based on the writings of the Greek historians. Cannot receive credit for both HSTR 302 and MCLG 301H.

**U HSTR 304H (HIST 303H) Ancient Rome 3 cr.** Offered intermittently. Roman history from the time of the Kings through the early Empire. Based on the writings of the Roman historians. Cannot receive credit for both HSTR 304H (HSTR 304), and MCLG 303H.

**U PHL 363 (PHIL 362) Ancient Greek and Roman Philosophy 3 cr.** Offered intermittently. Same as MCLG 362H and LS 362H. Examination of the thought of the philosophers of Greece and Rome as expressed in original works read in English translation. Ancient philosophy studied within its historical, linguistic and cultural setting.

#### Chinese Literature/Culture (MCLG)

**U 313L Classical Chinese Poetry in English Translation 3 cr.** Offered intermittently. Same as AS, CHIN, and LS 313L. The works of major Chinese poets to 1300 A.D.

**U 314L Traditional Chinese Literature in English Translation 3 cr.** Offered intermittently. Same as AS, CHIN, and LS 314L. Highlights of Chinese literature to 1800; includes philosophy, poetry, prose, and fiction.

**UG 432 Twentieth Century Chinese Fiction in English Translation 3 cr.** Offered intermittently. Same as AS, CHIN, and LS 432L. A survey of the principal works of Chinese fiction circa 1910–2000.

#### French Culture (MCLG)

**U 113H French Cultural Identity 3 cr.** This course will introduce students to concepts of cultural and national identity as a continually evolving process. It focuses on France, the iconography, fashions, philosophies, architectures, art, foods and songs that have framed French cultural imagination during any given period. This course examines and analyses through historical texts, philosophy, literature, film, and song the myths and ideas that frame French cultural identity.

**U 338 The French Cinema 3 cr.** (R–6) Offered intermittently. Same as FRCH (FREN 338) and LS 338. An historical, aesthetic, and critical survey of the French cinema, from its beginnings in 1895 through the contemporary cinema (Muet, classical, Realism, Nouvelle Vogue, etc.) with an introduction to contemporary film criticism. Students taking the course for French credits are required to do research, reading, and writing in the French language.

**U 339 Survey of African Cinema 3 cr.** A diachronic survey of primarily Francophone African cinema accompanied by interpretation and evaluation of films through filmic critical theory. Students taking the course for French credit must read and write in French.

#### German Literature/Culture (MCLG)

**U 222L The German Cinema 3 cr.** Offered intermittently. Same as LS 282L. The development of the German film from its beginnings in the late 19th century to the present. Topics include Expressionism, New Objectivity, the Nazi film, the German contribution to Hollywood, and the post-war film in East and West Germany. Credit not allowed for LS 282L, MCLG 222L and GRMN 322L (GERM 361L).

**U 231Y Germanic Mythology and Culture 3 cr.** Offered intermittently. Same as LS 221Y and GRMN 362Y (GERM 362H). Germanic culture and mythology from 200 B.C. to 1200 A.D. Topics include the Germanic pantheon, Germanic religious practices, Germanic migrations, and major literary masterpieces. Credit not allowed for LS 221Y, MCLG 231Y and GRMN 362Y (GERM 362H).

**U 331H German Culture from 1900 to Present 3 cr.** Offered spring alternate years. Same as LS 322H and GRMN 352H (GERM 352). Overview of major events and currents in German culture from 1900 to the present with emphasis on the arts, literature, and intellectual movements. Credit not allowed for MCLG 331H and GRMN 352H (GERM 352).

**U 332L Introduction to Multicultural Literature in Germany 3 cr.** Introduction to multicultural literature created during recent decades in Germany. Study topics include immigration, citizenship, multilingualism, identity; significant literary and cultural movements and selected writers in contemporary Germany.

#### Japanese Literature/Culture (MCLG)

**U 311 Classical Japanese Literature in English Translation 3 cr.** Offered autumn alternate years. Same as JPNS 311. Introduction to the classical literature of the Japanese court, ca. 7th to 14th century. Kojiki, Man'yoshu, Kokinshu, Genji Monogatari, and other major classics of the period.

**U 312L Japanese Literature from Medieval to Modern Times in English Translation 3 cr.** Offered spring alternate years. Same as JPNS 312L. Introduction to the literature of Japan from the 15th to the 20th century.

**UG 431 Post–War Japanese Literature 3 cr.** Offered spring odd–numbered years. Same as JPNS 431. Introduction to issues, literature, and criticism of Japanese literature from the postwar (1945) through the contemporary period, using texts in English translation.

#### Russian Literature/Culture (MCLG)

**U 105H Introduction to Russian Culture 3 cr.** Offered autumn. Fulfills both the Historical and Cultural (H) and American and European (y) General Education Perspectives. Same as RUSS 105H and LS 105H. A chronological survey of Russian culture from its beginnings to the contemporary period.

**U 193 Orientation for Study Abroad in Russia 1 cr.** Offered intermittently. This orientation course is intended to prepare students for a three-week study abroad program in Russia. It is required for all participants in the study abroad program.

**U 306L Introduction to Russian Literature I 3 cr.** Offered alternate years. Same as RUSS 312L (RUSS 306L) and LS 306L. A survey of 19th-century Russian literature in translation. May include the works of Dostoevsky, Tolstoy, and Chekhov. No knowledge of Russian is necessary.

**U 307L Introduction to Russian Literature II 3 cr.** Offered alternate years. Same as RUSS 313L (RUSS 307L) and LS 307L. Survey of Russian literature in translation of the 20th century and into the 21st. No knowledge of Russian is necessary.

**U 308 Russian Cinema and Culture 3 cr.** Offered alternate years. Same as RUSS 308, LS 308, FILM 308. Topically arranged introduction to the cinema of Russia and the former Soviet Union, with particular emphasis on contemporary Russian cinema. All films screened with English subtitles. No knowledge of Russian is necessary.

**U 393 The Russian Experience: Study Abroad 3 cr.** Offered intermittently during summer or winter sessions. Prereq., MCLG 193. Students spend three weeks in Russia on a faculty-led study-abroad program. They participate in daily cultural excursions and study Russian culture and literature with the program director.

**U 494 Seminar in Russian Studies 3 cr.** (R-9) Offered Spring. Same as RUSS 494. The topic of the seminar alternates between 1.) The Russian Novel and 2.) Dostoevsky and 3.) Women and Gender in Russian Culture. May be taken for honors credit through the Davidson Honors College. No knowledge of Russian is necessary, but Russian majors will be required to do selected readings in the original Russian. Fulfills the Upper-Division Writing Expectation for Russian majors.

#### Spanish Literature/Culture (MCLG)

**U 100H Introduction to Latin American Studies 3 cr.** Offered autumn or spring. Same as ANTY 103H (ANTH 100H). Multi-disciplinary survey and introduction to Latin America from pre-Columbian times to the present.

**U 315 Major Hispanic Authors and Their Times 3 cr.** Offered autumn. The intensive study of the life times, and works of a major Hispanic author.

**U 345 Introduction to Spanish Section Study Abroad Program 3 cr.** Offered autumn semester. Introduction to spring semester study abroad program in Spain or Latin America.

**U 358 Latin American Civilization through Literature and Film 3 cr.** Offered spring. The development of the traditional society of Latin American civilization through the interaction of European, Indian and African elements. Credit not allowed for both LS/MCLG 358 and 359.

**Other (for any language section) (MCLG)**

**U 195 Special Topics Variable cr.** (R–6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses or one–time offerings of current topics.

**U 198 Internship Variable cr.** Offered intermittently. Prereq., consent of department. Extended classroom experience which provides practical application of classroom learning during placements off campus. Prior approval must be obtained from the faculty supervisor and the Internship Services office. A maximum of 6 credits of Internship (198, 298, 398, 498) may count toward graduation.

**U 295 Special Topics Variable cr.** (R–6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one–time offerings of current topics.

**U 296 Independent Study Variable cr.** (R–6) Offered autumn and spring.

**U 381 Studies in the Film 3 cr.** Offered autumn and spring. Prereq., LS 180 or consent of instr. Same as ENLT and LS 381. Studies in genres, directors, movements, problems, etc.

**U 395 Special Topics Variable cr.** (R–9) Offered intermittently. Experimental offering of visiting professors, experimental offerings of new courses or one–time offerings of current topics.

**U 396 Independent Study 1–9 cr.** (R–9) Offered autumn and spring.

**U 398 Internship Variable cr.** Offered intermittently. Prereq., consent of department. Extended classroom experience which provides practical application of classroom learning during placements off campus. Prior approval must be obtained from the faculty supervisor and the Internship Services office. A maximum of 6 credits of Internship (198, 298, 398, 498) may count toward graduation.

**UG 410 Methods of Teaching Foreign Languages 3 cr.** Offered spring. Prereq., Ling 270S; one of FRCH 400 (FREN 401), LATN 311 (LAT 300), RUSS 350 (RUSS 302), or SPNS 400 (SPAN 405). Coreq. C&I 301 or 302. Fundamental concepts, objectives and techniques in the teaching of foreign languages.

**UG 440 Studies in Comparative Literature 3 cr.** (R–9) Offered intermittently. Prereq., consent of instr. Same as LIT 430 (ENLT 430) and LS 455. The study of important literary ideas, genres, trends and movements. Credit not allowed for the same topic in more than one course numbered 440, 494, LIT 430 (ENLT 430) or LS 455.

**UG 494 Seminar in Foreign Literatures 1–3 cr.** (R–9) Offered intermittently. Prereq., consent of instr. Specialized topics in various foreign literatures. Topics announced in class schedules. Credit not allowed for the same topic in more than one course numbered 440, 494 or LS 455.

**UG 495 Special Topics Variable cr.** (R–9) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses or one–time offerings of current topics.

**U 496 Independent Study Variable cr.** (R–6) Offered autumn and spring.

**G 501 Research Methods 3 cr.** Offered intermittently. Prereq., graduate standing in an M.A. program. Study of technical terms and overview of literary theory. Intensive analysis of research tools, materials and methods in literature, linguistics and pedagogy. Guided work in writing components of a research paper or thesis. Required of both thesis and non–thesis candidates for an advanced degree in Modern Languages and Literatures with an option in French, German, Spanish, or Interdisciplinary Studies which includes Classics.

**G 522 Seminar in Comparative Literature 3 cr.** (R–9) Offered intermittently. Prereq., graduate standing. Same as LIT 522 (ENLT 522). Topics will vary.

**G 594 Graduate Seminar Variable cr.** (R–6) Offered intermittently.

**G 596 Independent Study Variable cr.** (R–6) Offered intermittently.

**G 598 Internship Variable cr.** (R-9) Offered intermittently. Prereq., consent of department. Extended classroom experience which provides practical application of classroom learning during placements off campus. Prior approval must be obtained from the faculty supervisor and the Internship Services office.

**Linguistics (MCLX)**

**U 395 Special Topics Variable cr.** (R 6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one time offerings of current topics.

**UG 495 Special Topics Variable cr.** (R 6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one time offerings of current topics.

(The Arabic Program offers language instruction and cultural courses through the Central and Southwest Asian Center housed in the Anthropology Department. Course listings can be found under Anthropology. )

**Chinese (CHIN)**

**U 101 Elementary Chinese I 5 cr.** Offered autumn. Emphasis on speaking, reading and writing elementary Mandarin.

**U 102 Elementary Chinese II 5 cr.** Prereq., CHIN 101. Offered spring. Continuation of 101.

**U 191 (CHIN 195) Special Topics Variable cr.** (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

**U 199 Lower-Division Elective Variable Cr.**

**U 201 Intermediate Chinese I 5 cr.** Offered autumn. Prereq., CHIN 102 or equiv. Emphasis on oral communication, with continuing development in all major skill areas: listening, speaking, reading and writing.

**U 202 Intermediate Chinese II 5 cr.** Offered spring. Prereq., CHIN 201 or equiv. Continuation of 201.

**U 211H (MCLG 211H) Chinese Culture and Civilization 3 cr.** Offered intermittently. Same as AS and LS 211H. An introduction to the historical, intellectual, political, literary and social developments of China from early times to the present.

**U 292 (CHIN 296) Independent Study Variable cr.** (R-6) Offered autumn and spring.

**U 301 Advanced Chinese I 3 cr.** Offered autumn. Prereq., CHIN 202 or consent of instr. Advanced Chinese, with emphasis on literary style, advanced grammar, and oral expression.

**U 302 Advanced Chinese II 3 cr.** Offered spring. Prereq., CHIN 301 or consent of instr. Advanced Chinese, with emphasis on literary style, advanced grammar, and oral expression.

**U 313L Classical Chinese Poetry in English Translation 3 cr.** Offered intermittently. Same as AS, MCLG, and LS 313L. The works of major Chinese poets to 1300 A.D.

**U 314L Traditional Chinese Literature in English Translation 3 cr.** Offered intermittently. Same as AS, MCLG, and LS 314L. Highlights of Chinese literature to 1800; includes philosophy, poetry, prose, and fiction.

**U 380 Chinese Folktales 3 cr.** Same as LS 311. Offered intermittently. The study of the aspirations, desires, loves, moral and aesthetic values of the Chinese people as expressed in their folk literature.

**U 388 Readings in Classical Chinese 3 cr.** Prereq., CHIN 102 or approved equivalent. Introduces the basic grammar, syntax, and vocabulary of Classical Chinese through the reading of selected short representative texts from the formative and mature periods of the language's history.

**U 391 (CHIN 395) Special Topics Variable cr.** (R-9) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.



**U 392 (CHIN 396) Independent Study Variable cr.** (R-6) Offered autumn and spring.

**U 395 Special Topics 1–12 cr.** (R–12) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one–time offerings of current topics.

**U 399 Upper-Division Elective Variable cr.**

**UG 432 Twentieth Century Chinese Fiction in English Translation 3 cr.** Offered intermittently. Same as AS, MCLG, and LS 432L. A survey of the principal works of Chinese fiction circa 1910–2000

**UG 492 (CHIN 496) Independent Study Variable cr.** (R-9) Offered intermittently.

**French (FRCH)**

**U 101 Elementary French I 5 cr.** Offered autumn. Active skills: listening, speaking, reading and writing plus basic cultural analysis.

**U 102 Elementary French II 5 cr.** Prereq., FRCH 101 (FREN 101). Offered spring. Continuation of 101.

**U 191 (FREN 195) Special Topics Variable cr.** (R–6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one–time offerings of current topics.

**U 199 Lower-Division Elective Variable Cr.**

**U 201 Intermediate French I 4 cr.** Offered autumn. Prereq., FRCH 102 (FREN 102) or equiv. Expansion of active skills: listening, speaking, reading, writing plus further cultural analysis.

**U 202 Intermediate French II 4 cr.** Offered spring. Continuation of 201.

**U 292 (FREN 296) Independent Study Variable cr.** (R–6) Offered autumn and spring.

**U 294 (FREN 293) Seminar/Workshop Variable cr.** (R-10) Offered intermittently. University omnibus option for independent work. See index.

**U 300 Introduction to Literature in French 3 cr.** Offered intermittently. Prereq., FRCH 201 (FREN 201), or consent of instruct. Introduction to literature on special current topics with a focus on reading and written skills in French.

**U 301 Advanced Grammar/Oral and Written Expression 3 cr.** (R-6) Prereq. 202 or equivalent. Advanced grammar review including literary tenses; developmental and written skills in French.

**U 310 French Literature and Culture of the Middle Ages and Renaissance 3 cr.** Offered autumn. Prereq., FRCH 202 (FREN 202) or equiv. French literature of the Middle Ages and Renaissance with a focus on cultural identity.

**U 311 French Literature and Culture of the 17<sup>th</sup> and 18<sup>th</sup> Centuries 3 cr.** Offered spring. Prereq., FRCH 301 (FREN 301) or consent of instr. French literature of the 17th and 18th centuries within its cultural context.

**U 312 French Literature and Culture of the Long 19<sup>th</sup> Century 3 cr.** Offered autumn. Prereq., FRCH 301 (FREN 301) or consent of instr. French literature from the French Revolution to the First World War within its cultural context.

**U 313 Literature and Culture III: French and Francophone Literatures and Cultures of the 20<sup>th</sup> Century 3cr.** Offered spring. Prereq. FRCH 301 or consent of instr. Survey of literature and culture of 20<sup>th</sup> Century France and Francophone countries, with a focus on the significance of plural cultural identities.

**U 338 The French Cinema 3 cr.** (R–6) Offered intermittently. Same as MCLG and LS 338. An historical, aesthetic, and critical survey of the French cinema, from its beginnings in 1895 through the contemporary cinema (Muet, classical, Realism, Nouvelle Vogue, etc.) With an introduction to contemporary film criticism. Students taking the course for French credits are required to do research, reading, and writing in the French language.